Amendment #1
Update to the Lower Colorado River Authority Clean Rivers Program FY 2026–2027 QAPP

Prepared by the Lower Colorado River Authority in Cooperation with the Texas Commission on Environmental Quality (TCEQ)

Effective: Immediately upon approval by all parties

Questions concerning this QAPP Amendment should be directed to:

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Justification

This document details the changes made to the basin-wide QAPP to update Appendix B for fiscal year 2027. Additional changes include TCEQ personnel updates, changes to the total phosphorus and total non-filterable residue performance criteria, and clarified language regarding adherence of sub-participants to the QAPP. This document details the changes made to the basin-wide Quality Assurance Project Plan to add information about biological monitoring proposed by LCRA and UCRA. This document updates sites to be monitored along with parameters collected at these stations, and addresses any other changes made to the quality program since the last amendment.

Green highlighting = change by LCRA
Red font = change by TCEQ
~~Strikethrough font~~ = deletion of text from previous QAPP document

Summary of Changes

Section	Sub-section/ Figure/Table	Page(s) in Basin-wide QAPP	Change	Justification	Affected Entity	Page(s) in this Amendment
A2	TCEQ sub-section	2	Replaced Sunshyne Hendrix with Jenna Wadman as the TCEQ CRP Project Quality Assurance Specialist. Replaced Cathy Anderson, Team Leader, with Samantha Trexler, TCEQ CRP Data Manager, as the signatory for the TCEQ Data Management and Analysis (DM&A) team. Replaced D. Jody Koehler with Jason Natho as TCEQ Quality Assurance Manager. Replaced Loren Walker with Sagar Shrestha as the TCEQ Lead CRP Quality Assurance Specialist.	TCEQ personnel update. TCEQ personnel update and internal change to the QAPP approval process. TCEQ personnel update. TCEQ personnel update.	TCEQ	10
A2	LCRA, UCRA, COA, ELS, SPL, and BIO-WEST sub-sections	3 – 9	Moved LCRA, UCRA, COA, TV, ELS, SPL, and BIO-WEST from the beginning of each Title to the Basin Planning Agency.	To match the shell document with Basin Planning Agency under each name.	LCRA/ UCRA/ COA/ TV/ ELS/ SPL/	11 - 13

			Replaced DHL Analytical with SPL, Inc – Round Rock and DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	BIO-WEST	
A2	Approval Page	9	Added paragraph regarding adherence of sub-tier participants to the QAPP. Moved paragraph from Section B4 to Section A2.	Clarified requirements for sub-tier participants who do not sign the QAPP.	ELS/ SPL	14
A2	List of Acronyms	12 - 13	Replaced DHL Analytical with SPL, Inc – Round Rock and DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	15 - 16
A5	Project/ Task Description	15 – 16	Changed LCRA, UCRA, COA, and TV count of routine and biological stations and added language accounting for sampling.	To match routine and biological data collection proposed by LCRA, UCRA, COA, and TV for FY27.	LCRA/ UCRA/ COA/ TV	17
A5	Table A5.1	16	Updated Table A5.1 for LCRA, UCRA, COA, and TV to match monitoring schedule changes.	To match routine and biological data collection proposed by LCRA, UCRA, COA, and TV for FY27.	LCRA/ UCRA/ COA/ TV	18
A5	Amendments to the QAPP, Special Project Appendices	16 – 17	Replaced the TCEQ DM&A Team Leader with the TCEQ CRP Data Manager as the signatory for DM&A on amendments and appendices.	Internal change to the approval process.	TCEQ	18 - 19
A7	TCEQ sub-section	19	Replaced Cathy Anderson, Team Leader, with Samantha Trexler, TCEQ CRP Data Manager, as the contact for the TCEQ DM&A team. Replaced Loren Walker with Sagar Shrestha as the TCEQ Lead CRP Quality Assurance Specialist.	TCEQ personnel update and change to the QAPP distribution process. TCEQ personnel update.	TCEQ	20
A7	DHL Analytical sub-	20	Replaced DHL Analytical with	DHL Analytical was	DHL/SPL	20

	section		SPL, Inc – Round Rock and DHL with SPL.	purchased by SPL, Inc – Round Rock and the lab name has been changed.		
A8	TCEQ sub-section	21 – 22	Replaced Sunshyne Hendrix with Jenna Wadman as the TCEQ CRP Project Quality Assurance Specialist. Replaced Cathy Anderson with Scott Delgado as the TCEQ DM&A Team Leader. Replaced Scott Delgado with Samantha Trexler as the TCEQ CRP Data Manager. Replaced D. Jody Koehler with Jason Natho as TCEQ Quality Assurance Manager. Replaced Loren Walker with Sagar Shrestha as the TCEQ Lead CRP Quality Assurance Specialist.	TCEQ personnel update. TCEQ personnel update. TCEQ personnel update. TCEQ personnel update. TCEQ personnel update.	TCEQ	21 - 22
A8	COA sub-section	23	Replaced DHL Analytical with SPL, Inc – Round Rock and DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	COA	22
A8	ELS sub-section	25	Replaced Colt Petri with Andrew Boswell as ELS Field Staff. Added Nicole Grob as ELS Field Staff.	ELS personnel update.	ELS	22 - 23
A8	DHL Analytical sub-section	25	Replaced DHL Analytical with SPL, Inc – Round Rock and DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	23
A10	Figure A10.1	27	Replaced D. Jody Koehler with Jason Natho as TCEQ Quality Assurance Manager. Replaced Loren Walker with Sagar Shrestha as the TCEQ	TCEQ personnel update. TCEQ personnel update.	TCEQ	24

			Lead CRP Quality Assurance Specialist. Replaced Sunshyne Hendrix with Jenna Wadman as the TCEQ CRP Project Quality Assurance Specialist. Replaced Cathy Anderson with Scott Delgado as the TCEQ DM&A Team Leader. Replaced Scott Delgado with Samantha Trexler as the TCEQ CRP Data Manager.	TCEQ personnel update. TCEQ personnel update. TCEQ personnel update.		
A10	Figure A10.1	27	Replaced DHL Analytical with SPL, Inc – Round Rock and DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	24
A10	Figure A10.1	27	Replaced Colt Petri with Andrew Boswell as ELS Field Staff. Added Nicole Grob as ELS Field Staff.	ELS personnel update.	ELS	24
A12	Figure A12.1	28	Replaced DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	25
A12	Laboratory Test Reports	28 - 29	Replaced DHL Analytical with SPL, Inc – Round Rock and DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	25
B2	Sampling Methods	31	Replaced DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	26
B4	Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions	40	Deleted paragraph regarding the use of subcontracted labs.	Moved paragraph to Section A2.	ELS/ SPL	27
B5	Instrument/Equipment	40	Replaced Colt Petri with Andrew	ELS personnel update.	ELS	28

	Calibration, Testing, Inspection, and Maintenance		Boswell.			
B7	Data Management Process	41	Replaced DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	29
D1	Verification and Validation Methods	48 - 50	Replaced DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	30 - 32
D1	Table D1.1	51	Replaced DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	33
Appendix A	Table A6.1 Measurement Performance Specifications for LCRA field data	54	Updated the method for Reservoir Stage to LCRA.	Correcting method listed on FY26/27 QAPP.	LCRA	34 - 35
Appendix A	Table A6.3 Measurement Performance Specifications for LCRA conventional data	55 – 56	Updated the AWRL for total phosphorus in Table A6.3 Added precision and bias % recovery of LCS criteria for total non-filterable residue in Table A6.3. Updated the methods for TKN, Nitrate plus Nitrate, TP, and Orthophosphate.	Programmatic update to support the development of nutrient criteria. Update to CRP's measurement performance specifications. Correcting methods listed on FY26/27 QAPP.	LCRA, ELS	36 - 37
Appendix A	Table A6.13 Measurement Performance Specifications for UCRA conventional data	71	Updated the AWRL for total phosphorus in Table A6.13	Programmatic update to support the development of nutrient criteria.	UCRA, ELS	37 - 38
Appendix A	Table A6.22 Measurement Performance	84 – 85	Updated the AWRL and LOQ for total phosphorus in Table A6.22	Programmatic update to support the development of nutrient criteria.	COA, SPL	38 - 39

	Specifications for COA conventional data		Added precision and bias % recovery of LCS criteria for total non-filterable residue in Table A6.22. Updated methods for TAN, TKN, Nitrite plus Nitrate, and Orthophosphate. Replaced DHL with SPL.	Update to CRP's measurement performance specifications. Correcting methods listed on FY26/27 QAPP. DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.		
Appendix A	Table A6.23 Measurement Performance Specifications for COA bacteria data	85	Replaced DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	39
Appendix A	Table A6.24 Measurement Performance Specifications for COA metals in sediment data	86 – 87	Deleted Table A6.24.	COA will not collect metals in sediment in FY27.	COA, SPL	39 - 41
Appendix A	Table A6.25 Measurement Performance Specifications for COA organics in sediment data	87 - 89	Replaced DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	41 - 43
Appendix A	Table A6.28 Measurement Performance Specifications for Travis County conventional data	91 – 92	Updated the AWRL for total phosphorus in Table A6.28 Added precision and bias % recovery of LCS criteria for total non-filterable residue in Table A6.28. Updated methods for TP.	Programmatic update to support the development of nutrient criteria. Update to CRP's measurement performance specifications. Correcting method listed on FY26/27 QAPP.	TV, ELS	43 - 44
Appendix B	Sample Design	95 – 96	Updated routine and biological	To match the updated FY27	LCRA/	45 - 47

	Rational FY 2027		monitoring for LCRA, UCRA, COA, and TV for FY 27.	CMS.	UCRA/ COA/ TV	
Appendix B	Table B1.1 Sample Design and Schedule, FY 2027	97 – 107	Updated Table B1.1 to reflect modifications to sampling design for FY 2027.	Sampling design has changed from FY 2026 to FY 2027 to add new FY27 ALM stations and drop old FY26 stations for LCRA/ UCRA. TV/ COA added new RT stations and dropped RT stations.	LCRA/ UCRA/ COA/ TV	48 - 59
Appendix C	Station Location Maps	108	Updated contact information for Station Location Maps from Zoe Nichols at (512) 578-2858 to Lucas Graunke at (512) 578-7482.	Lucas Graunke makes the CRP station location maps.	LCRA	60
Appendix C	Upper Colorado River Basin	108	Dropped station 17244	To match station changes noted in the CMS and Table B1.1	UCRA	60
Appendix C	Concho River Basin	109	Updated map graphics.	For consistency.	UCRA	61
Appendix C	Pecan Bayou Basin	110	Updated map graphics.	For consistency.	LCRA/UCRA	62
Appendix C	Lake Buchanan Basin	111	Added stations 17358 and 20662.	To match station changes noted in the CMS and Table B1.1	LCRA	63
Appendix C	Lake Lyndon B. Johnson Basin	112	Added station 22652. Dropped station 12210.	To match station changes noted in the CMS and Table B1.1	LCRA	64
Appendix C	Lake Travis Basin	113	Added stations 22660, 22651, and 22659.	To match station changes noted in the CMS and Table B1.1	TV/ LCRA	65
Appendix C	Austin Basin	114	Added stations 12186, 15697, 17469, 22653, 22666, 12241, 22665, 14071, and 12495. Dropped stations 17251 and 18762.	To match station changes noted in the CMS and Table B1.1	TV/ COA	66
Appendix C	Lower Colorado River Basin	115	Added stations 22661, 22662, 22663, 22664, and 22308. Dropped station 20808.	To match station changes noted in the CMS and Table B1.1	LCRA/ TV	67
Appendix C	Coastal Basin	116	Added station 21809. Dropped stations 12286, and 21808.	To match station changes noted in the CMS and Table	LCRA	68

				B1.1		
Appendix E	Chain of Custody Forms	131	Replaced DHL with SPL.	DHL Analytical was purchased by SPL, Inc – Round Rock and the lab name has been changed.	DHL/SPL	69

Distribution

The TCEQ CRP PM will provide the approved amendment to TCEQ staff listed in A7 and the LCRA. The LCRA will provide copies of the amendment to each person on the distribution list and to each sub-tier project participant (e.g., subcontractors, subparticipants, or other units of government). The LCRA will document distribution according to section A7 of the QAPP to which this amendment pertains.

These changes will be incorporated into the QAPP document and TCEQ and the LCRA will acknowledge and accept these changes by approving the final amendment draft electronically.

A2 Approval Page

Texas Commission on Environmental Quality

Water Quality Planning Division

Electronically approved 08/28/2026

Sarah Whitley, Team Leader Date
Water Quality Standards and Clean Rivers Program

Electronically approved 08/27/2026

~~Sunshyne Hendrix~~ Jenna Wadman Date
Project Quality Assurance Specialist
Clean Rivers Program

Electronically approved 08/27/2026

Kiran Freeman, Project Manager Date
Clean Rivers Program

Electronically approved 08/28/2026

~~Cathy Anderson~~ Samantha Trexler Date
~~Team Leader~~ CRP Data Manager
Data Management and Analysis

Air Monitoring Division

Electronically approved 08/28/2026

~~D. Jody Koehler~~ Jason Natho Date
TCEQ Quality Assurance Manager
Laboratory and Quality Assurance Section

Electronically approved 08/28/2026

~~Loren Walker~~ Sagar Shrestha Date
Lead CRP Quality Assurance Specialist
Quality Assurance Team

Lower Colorado River Authority (LCRA)

Electronicaly Approved	08/26/2026
Zoe Nichols, ~~LCRA~~ Project Manager LCRA	Date

Electronicaly Approved	08/25/2026
Lucas Graunke, ~~LCRA~~ Quality Assurance Officer & Data Manager LCRA	Date

Upper Colorado River Authority (UCRA)

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Scott McWilliams, ~~UCRA~~ Quality Assurance Officer & Field Staff UCRA	Date

Electronicaly Approved	08/27/2026
Lexi Woods, ~~UCRA~~ Project Manager, Data Manager, & Field Staff UCRA	Date

City of Austin (COA)

Electronicaly Approved	08/26/2026
Andrew Clamann, ~~COA~~ Project Manager, Quality Assurance Officer, & Field Coordinator COA	Date

Travis County (TV)

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Kiersten Ivy, ~~TV~~ Project Manager, Quality Assurance Officer, & Field Coordinator TV	Date

Electronicaly Approved	08/26/2026
Ryan Petr, ~~TV~~ Field Staff TV	Date

Environmental Laboratory Services (ELS)

Electronicaly Approved 08/26/2026

Dale Jurecka, ~~ELS~~ Laboratory Manager
ELS
Date

Electronicaly Approved 08/26/2026

Angel Mata, ~~ELS~~ Laboratory Quality Assurance Officer
ELS
Date

Electronicaly Approved 08/26/2026

Jason Woods, ~~ELS~~ Project Manager
ELS
Date

~~DHL Analytical~~ SPL, Inc – Round Rock

Electronicaly Approved 08/25/2026

Karyn Lane, ~~DHL~~ SPL Laboratory Manager
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Date

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Sherri Herschmann, ~~DHL~~ SPL Quality Assurance Manager
~~DHL Analytical~~ SPL, Inc – Round Rock
Date

BIO-WEST

Electronicaly Approved 08/27/2026

Brad Littrell, ~~BIO-WEST~~ Project Manager, Aquatic Ecologist, & Field Staff
BIO-WEST
Date

Adds language to page 9 of the FY 2026–2027 CRP QAPP

Sub-tier participants (e.g., subcontractors, subparticipants, or other units of government) will sign the quality assurance project plan (QAPP), indicating the organization's awareness of, and commitment to requirements contained in the QAPP and any amendments or added appendices of this plan. Signatures in section A2 will eliminate the need for adherence letters to be maintained. If adherence letters are preferred, the LCRA will secure written documentation from each sub-tier project participant stating the organization's awareness of and commitment to requirements contained in this QAPP and any amendments or added appendices of this plan. The LCRA will maintain this documentation as part of the project's quality assurance records and will ensure the documentation is available for review.

When a laboratory that is a signatory of this QAPP finds it necessary and/or advantageous to subcontract analyses, in accordance with CRP requirements and the TNI Standard (Volume 1, Module 2, Section 4.5, Subcontracting of Environmental Tests), the laboratory must ensure and document that the subcontracting laboratory is NELAP-accredited (when required) and understands and follows the QA/QC requirements included in this QAPP. This includes confirming that the sub-contracting laboratory has LOQs at or below TCEQ AWRLs and performs all required QC analysis outlined in this QAPP. The signatory laboratory is also responsible for QA of the data prior to delivering it to the LCRA, including review of all applicable QC samples related to CRP data. As stated in section 4.5.5 of the TNI Standard, the laboratory performing the subcontracted work shall be indicated in the final report and the signatory laboratory shall make a copy of the subcontractor's report available to the client (LCRA) when requested.

Updates language on pages 12 & 13 of the FY 2026-2027 CRP QAPP.

List of Acronyms

ALM	Aquatic Life Monitoring
AWRL	Ambient Water Reporting Limit
BMP	Best Management Practices
BS	Biased Season
CAP	Corrective Action Plan
CE	Collecting Entity
CFR	Code of Federal Regulations
COA	City of Austin
COC	Chain of Custody
CRP	Clean Rivers Program
~~DHL~~	~~DHL Analytical~~
DM	Data Manager
DMRG	Surface Water Quality Monitoring Data Management Reference Guide
DM&A	Data Management and Analysis
ELS	Environmental Laboratory Services
EPA	United States Environmental Protection Agency
FY	Fiscal Year
GPS	Global Positioning System
IBWC	International Boundary and Water Commission
IT	LCRA Digital Services Department
ITIL	Information Technology Infrastructure Library
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LIMS	Laboratory Information Management System
LOQ	Limit of Quantitation
LCRA	Lower Colorado River Authority
MT	Monitoring Type
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NELAC	National Environmental Laboratories Accreditation Conference
NELAP	National Environmental Laboratory Accreditation Program
PC	Personal Computer
PM	Project Manager
QA	Quality Assurance
QAM	Quality Assurance Manager
QAO	Quality Assurance Officer
QAPP	Quality Assurance Project Plan
QAS	Quality Assurance Specialist
QC	Quality Control
QM	Quality Manual

Updates language on pages 12 & 13 of the FY 2026-2027 CRP QAPP.

QMP	Quality Management Plan
RPD	Relative Percent Difference
RT	Routine Monitoring
SE	Submitting Entity
SLOC	Station Location
SOP	Standard Operating Procedure
SPL	SPL, Inc – Round Rock
SWQM	Surface Water Quality Monitoring
SWQMIS	Surface Water Quality Monitoring Information System
TAMU	Texas A&M AgriLife Extension Lab
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TMDL	Total Maximum Daily Load
TNI	The NELAC Institute
TSWQS	Texas Surface Water Quality Standards
TV	Travis County
TWDB	Texas Water Development Board
USACE	United States Army Corps of Engineers
VOA	Volatile Organic Analytes
WQS	Water Quality Standards
UCRA	Upper Colorado River Authority
USGS	United States Geological Survey
WRM	Water Resources Monitoring database

Replaces section A5 on pages 15-17 of the FY 2026–2027 CRP QAPP

A5 Project/Task Description

The Lower Colorado River Authority will collect water samples from the Colorado River below O.H. Ivie Reservoir to its mouth, as well as all the major tributaries and reservoirs. Parameters collected will include field, flow, bacteria, 24 hr dissolved oxygen, metals in water, aquatic habitat, nekton, benthics, and conventional parameters. ~~A total of 65 sites will be monitored with 62 Routine Monitoring (RT) sites, and 3 additional sites only monitored for Aquatic Life Monitoring (ALM) Biased Season (BS), and 1 site monitored for 24 hr dissolved oxygen (BS). One site is monitored for both routine (TV) and ALM (LCRA).~~ A total of 65 sites will be monitored with 61 Routine Monitoring (RT) sites, 3 Aquatic Life Monitoring (ALM) Biased Season (BS) sites, and 1 ALM/RT site. ~~This~~ The 1 ALM/RT site is not accounted for within the 61 ~~62~~ routine sites. Routine (RT) sampling frequency at 51 ~~50~~ locations will be six times per year, in order to maintain a consistent data set, to determine inter-seasonal variability and examine possible pollution impacts. Metals in water will be collected at one of these locations. Quarterly monitoring will occur at 9 ~~nine~~ locations. These locations are mostly rural and have few sources of large impacts on water quality. Two locations on Lake Austin will be monitored 8 times a year. ALM data (aquatic habitat, nekton, benthic macroinvertebrate, 24 hr DO, field, and flow) will be collected at 4 stations twice per year. For each station, one sample will be collected in the non-critical index period while the second will be collected within the critical index period. Conventional and bacteria data will be collected alongside ALM data at 3 of these stations.

The Upper Colorado River Authority will collect water samples at sites in the Concho River and upper Colorado River watersheds, including tributaries and reservoirs. UCRA's monitoring program will include collection of 24 hr DO, field, flow, bacteria, conventional, aquatic habitat, nekton, and benthic macroinvertebrate data. ALM data (aquatic habitat, nekton, benthic macroinvertebrate, 24 hr DO, field, and flow) will be collected at 2 stations twice per year. For each station, one sample will be collected in the non-critical index period while the second will be collected within the critical index period. Routine conventional and bacteria data might be collected the same day as ALM. Diel data will be collected at an additional 3 ~~four~~ sites. Three out of 5 ~~six~~ diel sites are within Segment 1421 which has significant dissolved oxygen issues caused by urban runoff and lack of base flows. Quarterly routine (RT) sampling will occur at 47 ~~43~~ sites throughout the upper basin. Two of the 47 routine (RT) sites are also ALM sites. Six routine (RT) sites will be monitored twice per fiscal year. ~~Bacteria will not be collected in segment 1412 due to the inability to meet the holding time for *Enterococcus* bacteria.~~ UCRA sampling frequencies vary from quarterly to semiannually, based upon data needs and shared monitoring with the regional TCEQ offices.

City of Austin, an in-kind contributor of CRP data, will collect water samples at 20 ~~15~~ routine sites in and around Austin. Field, flow, bacteria, ~~metals,~~/organics in sediment, and conventional parameters will be collected, analyzed, and reported for Lake Austin, Lady Bird Lake, and several tributaries to the Colorado River. Organics in sediment, ~~metals in sediment,~~ and chlorophyll *a* will be collected from Lake Austin and Lady Bird Lake.

Travis County, an in-kind contributor of CRP data, will collect water samples at 22 ~~15~~ routine sites in Travis County. Field, flow, bacteria, and conventional parameters will be collected at each site which will be sampled quarterly. Sites include tributaries to Lake Travis and Lake Austin in the western portion of Travis County along with tributaries to the Colorado River below Austin in the eastern portion of Travis County.

BIO-WEST is contracted by LCRA to provide a boat, seine, electrofishing backpack, and boat/barge electrofishing equipment for use during biological sampling conducted by LCRA. BIO-WEST staff members will accompany LCRA biologists during biological sampling and assist with nekton sampling, including identification and enumeration of fish species. All data for these events will be collected and handled by LCRA staff.

Replaces section A5 on pages 15-17 of the FY 2026–2027 CRP QAPP

Table A5.1: Summary of monitoring groups and frequencies.

Frequency	Number of Sites										
	Field	Conv	Bacteria	Flow	24 hr DO	Metal Sed	Organic Sed	Metals Water	AqHab	Nekton	Benthics
LCRA – BS											
2	~~34~~	~~23~~	~~23~~	~~34~~	~~34~~	–	–	–	~~34~~	~~34~~	~~34~~
LCRA – RT											
4	9	9	9	8	–	–	–	–	–	–	–
6	~~5051~~	~~4951~~	50	~~3130~~	–	–	–	1	–	–	–
8	2	2	2	–	–	–	–	–	–	–	–
UCRA – BS											
2	2	–	–	~~65~~	~~65~~	–	–	–	2	2	2
UCRA – RT											
2	6	6	6	–	–	–	–	–	–	–	–
4	~~4341~~	~~4341~~	30	~~3533~~	–	–	–	–	–	–	–
COA – RT											
1	2	2	2	–	–	~~2~~ –	2	–	–	–	–
4	~~1014~~	~~1014~~	~~1216~~	~~1216~~	–	–	–	–	–	–	–
9	~~12~~	~~12~~	~~12~~	–	–	–	–	–	–	–	–
TV – RT											
4	~~1521~~	~~1521~~	~~1522~~	~~1522~~	–	–	–	–	–	–	–

See Appendix B for the project-related work plan tasks and schedule of deliverables for a description of work defined in this QAPP.

See Appendix B for sampling design and monitoring pertaining to this QAPP.

Amendments to the QAPP

Amendments to the QAPP may be necessary to address incorrectly documented information or to reflect changes in project organization, tasks, schedules, objectives, and methods. Requests for amendments will be directed from the LCRA Project Manager (PM) to the TCEQ CRP PM electronically. The LCRA will submit a completed QAPP amendment document, including a justification of the amendment, a table of changes, and all pages, sections, and attachments affected by the amendment. Amendments are effective immediately upon approval by the LCRA PM, the LCRA Quality Assurance Officer (QAO), the TCEQ CRP PM, the TCEQ CRP Lead Quality Assurance Specialist (QAS), the TCEQ CRP Project QAS, the TCEQ CRP Team Leader, the TCEQ ~~Data Management and Analysis (DM&A) Team Leader~~ CRP Data Manager (DM), and any additional parties affected by the amendment. Amendments are not retroactive. No work shall be implemented without an approved QAPP or amendment prior to the start of work. Any activities under this contract that commence prior to the approval of the governing QA document constitute a deficiency and are subject to corrective action as described in section C1 of this QAPP. Any deviation or deficiency from this QAPP which occurs after the execution of this QAPP will be addressed through a corrective action plan (CAP). An amendment may be a component of a CAP to prevent future recurrence of a deviation.

Amendments will be incorporated into the QAPP by way of attachment and distributed to personnel on the distribution list by the LCRA PM. If adherence letters are required, the LCRA will secure an adherence letter from each sub-tier project participant (e.g., subcontractors, sub-participant, or other units of government) affected by the amendment stating the organization's awareness of and

Replaces section A5 on pages 15-17 of the FY 2026–2027 CRP QAPP

commitment to requirements contained in each amendment to the QAPP. The LCRA will maintain this documentation as part of the project's QA records and ensure that the documentation is available for review.

Special Project Appendices

Projects requiring QAPP appendices will be planned in consultation with the LCRA, the TCEQ CRP PM, and TCEQ technical staff. Appendices will be written in an abbreviated format and will reference the LCRA QAPP where appropriate. Appendices will be approved by the LCRA PM, the LCRA QAO, the Laboratory (as applicable), the TCEQ CRP PM, the TCEQ CRP Project QAS, the TCEQ Lead QAS, TCEQ CRP Team Leader, the TCEQ ~~DM&A Team Leader~~ CRP DM, and additional parties affected by the appendix, as appropriate. Copies of approved QAPP appendices will be distributed by the LCRA to project participants before data collection activities commence. The LCRA will secure written documentation from each sub-tier project participant (e.g., subcontractors, subparticipants, other units of government) stating the organization's awareness of and commitment to requirements contained in each special project appendix to the QAPP. The LCRA will maintain this documentation as part of the project's QA records and ensure that the documentation is available for review.

Replaces TCEQ personnel on page 19 and updates DHL to SPL on page 20 of the FY 2026–2027 CRP QAPP

A7 Distribution List

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Replaces TCEQ and COA personnel, specific ELS personnel and updates DHL to SPL on pages 21 – 25 of the FY 2026–2027 CRP QAPP

A8 Project/Task Organization

Description of Responsibilities

TCEQ

Jason Godeaux
Manager, Monitoring and Assessment Section
Responsible for oversight of the implementation of CRP QAPPs, directs the day-to-day management of the section.

Sarah Whitley
Team Leader, Water Quality Standards and Clean Rivers Program
Responsible for TCEQ activities supporting the development and implementation of the Texas CRP. Responsible for verifying that the TCEQ QMP is followed by TCEQ CRP staff. Supervises TCEQ CRP staff. Reviews and responds to any deficiencies, corrective actions, or findings related to the area of responsibility. Oversees the development of QA guidance for the CRP. Reviews and approves all QA audits, corrective actions, reports, work plans, contracts, QAPPs, and TCEQ QMP. Enforces corrective action, as required, where QA protocols are not met. Ensures CRP personnel are fully trained.

~~Sunshyne Hendrix~~ Jenna Wadman
CRP Project Quality Assurance Specialist
Serves as liaison between CRP management and TCEQ QA management. Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Serves on planning team for CRP special projects. Reviews and approves CRP QAPPs in coordination with other CRP staff. Coordinates documentation and monitors implementation of corrective actions for the CRP.

Kiran Freeman
CRP Project Manager
Responsible for the development, implementation, and maintenance of CRP contracts. Tracks, reviews, and approves deliverables. Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Coordinates the review and approval of CRP QAPPs in coordination with the TCEQ CRP Project QAS. Ensures maintenance of QAPPs. Assists TCEQ CRP Lead QAS in conducting Basin Planning Agency audits. Verifies QAPPs are being followed by contractors and that projects are producing data of known quality. Coordinates project planning with the Basin Planning Agency PM. Reviews and approves data and reports produced by contractors. Notifies TCEQ CRP QA Specialists of circumstances that may adversely affect the quality of data derived from the collection and analysis of samples. Develops, enforces, and monitors corrective action measures to ensure contractors meet deadlines and scheduled commitments.

~~Cathy Anderson~~ Scott Delgado
Team Leader, Data Management and Analysis Team
Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Ensures DM&A staff perform data management-related tasks.

~~Scott Delgado~~ Samantha Trexler
CRP Data Manager, Data Management and Analysis Team
Responsible for coordination and tracking of CRP data sets from initial submittal through TCEQ CRP PM review and approval. Ensures that data are reported following instructions in the Data

Replaces TCEQ and COA personnel, specific ELS personnel and updates DHL to SPL on pages 21 – 25 of the FY 2026–2027 CRP QAPP

Management Reference Guide (DMRG), July 2019 or most current version. Runs automated data validation checks in SWQMIS and coordinates data verification and error correction with TCEQ CRP PMs. Generates SWQMIS summary reports to assist CRP PMs' data review. Identifies data anomalies and inconsistencies. Provides training and guidance to CRP and planning agencies on technical data issues to ensure that data are submitted according to documented procedures. Reviews QAPPs for valid stream monitoring stations. Checks validity of parameter codes, submitting entity (SE) code(s), collecting entity (CE) code(s), and monitoring type (MT) code(s). Develops and maintains data management-related SOPs for CRP data management. Coordinates and processes data correction requests. Participates in the development, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP).

~~D. Jody Koehler~~ Jason Natho
TCEQ Quality Assurance Manager
Responsible for coordinating development and implementation of TCEQ's QA program. Provides oversight and guidance for TCEQ's QA program. Responsible for the development and maintenance of the TCEQ QMP. TCEQ's QA Manager, or designated QA staff in the Laboratory and Quality Assurance Section of the Air Monitoring Division, is responsible for review and approval of program/project QAPPs to ensure QAPPs conform to applicable requirements as detailed in TCEQ's QMP.

~~Loren Walker~~ Sagar Shrestha
CRP Lead Quality Assurance Specialist
Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Assists program manager and TCEQ CRP Project QAS in developing and implementing the quality system. Reviews and approves CRP QAPPs, QAPP amendments, and QAPP special appendices. Prepares and distributes annual audit plans. Conducts monitoring systems audits of planning agencies. Concurs with corrective actions. Conveys QA problems to appropriate management. Recommends that work be stopped in order to safeguard programmatic objectives, worker safety, public health, or environmental protection. Ensures maintenance of audit records for the CRP.

City of Austin

Andrew Clamann
COA Project Manager, QA Officer, and Field Coordinator
Responsible for overall performance, administration and management of COA's project participation. Responsible for field team activities and that field teams receive necessary training. Responsible for overall quality control and quality assurance of samples and analytical results of the samples collected by COA. Responsible for verifying and validating data. Ensures that only acceptable data, as specified in the QAPP, are reported to the Lower Colorado River Authority. Responsible for documenting corrective actions, coordinating audit and QA activities, and responding to audit reviews by Lower Colorado River Authority. Coordinates activities with City of Austin field staff, LCRA PM, LCRA DM/QAO and ~~DHL~~ SPL laboratory staff. Ensures that training records are maintained. Coordinates field activities.

Environmental Laboratory Services

~~Colt Petri~~ Andrew Boswell
ELS Field Staff
Responsible for the collection of LCRA water quality data in accordance with the latest edition of the SWQM Procedures. Compilation and transmittal of QAPP-listed LCRA field data to LIMS.

Replaces TCEQ and COA personnel, specific ELS personnel and updates DHL to SPL on pages 21 – 25 of the FY 2026–2027 CRP QAPP

Nicole Grob
ELS Field Staff
Responsible for the collection of LCRA water quality data in accordance with the latest edition of the SWQM Procedures. Compilation and transmittal of QAPP-listed LCRA field data to LIMS.

~~DHL Analytical~~ SPL, Inc – Round Rock

Karyn Lane
~~DHL~~ SPL Laboratory Manager
Responsible for overall performance, administration, and reporting of analyses performed by ~~DHL Analytical~~ SPL, Inc – Round Rock Laboratory. Responsible for supervision of laboratory personnel involved in generating analytical data for the project. Ensures that laboratory personnel have adequate training and a thorough knowledge of this QAPP and related SOPs. Responsible for oversight of all laboratory operations ensuring that all QA/QC requirements are met, documentation is complete and adequately maintained, and results are reported accurately. Additionally, the general manager will review and verify all field and laboratory data for integrity and continuity, reasonableness and conformance to project requirements, and then validated against the data quality objectives listed in Appendix A of this QAPP.

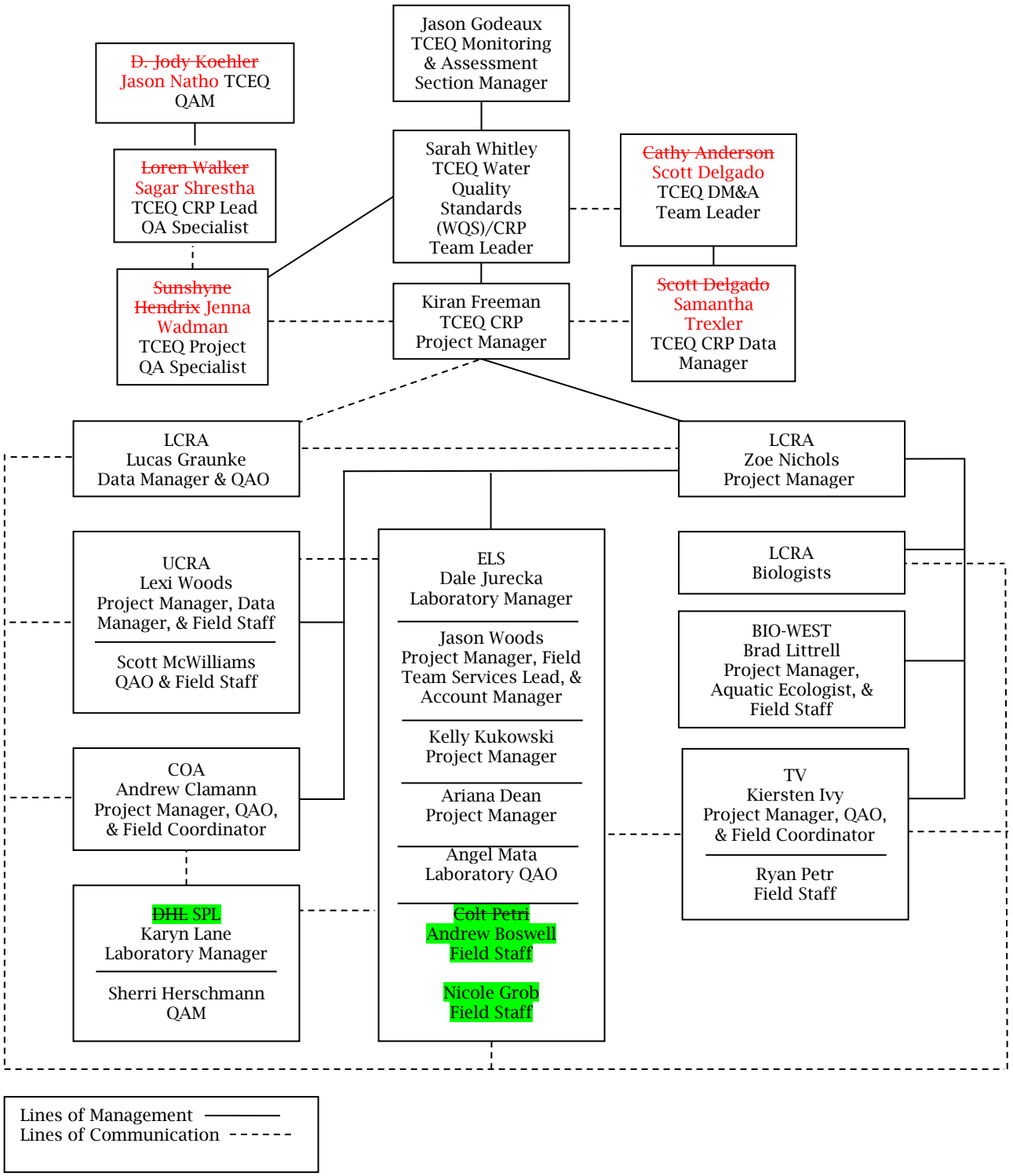
Sherri Herschmann
~~DHL~~ SPL Laboratory Quality Assurance Manager
Maintains operating procedures that are in compliance with this QAPP.

Replaces page 27 of the FY 2026–2027 CRP QAPP

A10 Project Organizational Chart and Communication

Project Organization Chart

Figure A10.1. Organization Chart with Lines of Communication



Updates language for parts of section A12 on pages 28 & 29 of the FY 2026–2027 CRP QAPP

A12 Documents and Records

The documents and records that describe, specify, report, or certify activities are listed. The list below is limited to documents and records that may be requested for review during a monitoring systems audit.

Table A12.1 Project Documents and Records

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	LCRA	5 years	Electronic
Field SOPs	LCRA	5 years	Electronic/Paper
Laboratory Quality Manuals	LCRA/ELS/~~DHL~~ SPL	5 years	Electronic
Laboratory SOPs	LCRA/ELS/~~DHL~~ SPL	5 years	Electronic
QAPP distribution documentation	LCRA	5 years	Electronic
Field staff training records	LCRA/UCRA/COA/TV	5 years	Electronic/Paper
Field equipment calibration/maintenance logs	ELS/UCRA/COA/BIO-WEST/ TV	5 years	Electronic/Paper
Field instrument printouts	ELS/UCRA/COA/TV	5 years	Electronic
Field notebooks or data sheets	LCRA/UCRA/ELS/TV	5 years	Electronic/Paper
Chain of custody records	LCRA/UCRA/COA/ELS/ TV	5 years	Electronic
Laboratory calibration records	ELS/~~DHL~~ SPL	5 years	Electronic
Laboratory instrument printouts	ELS/~~DHL~~ SPL	5 years	Electronic
Laboratory data reports/results	LCRA/ELS/~~DHL~~ SPL	5 years	Electronic
Laboratory equipment maintenance logs	ELS/~~DHL~~ SPL	5 years	Electronic
Corrective Action Documentation	LCRA/UCRA/COA/ELS/~~DHL~~ SPL/ TV	5 years	Electronic

Laboratory Test Reports

Test/data reports from the laboratory must document the test results clearly and accurately. Routine data reports should be consistent with the TNI Standard (2016), Volume 1, Module 2, Section 5.10 and include the information necessary for the interpretation and validation of data. The requirements for reporting data and the procedures are provided.

Laboratory Test Reports generated by ELS and ~~DHL~~ SPL contain the following elements:

- Sample results
- Units of measurement
- Sample matrix
- Dry weight or wet weight (as applicable)
- Station information
- Date and time of collection
- Sample depth (as applicable)
- *E. coli* analysis time so that holding time can be calculated and reported to TCEQ
- LOQ and limit of detection (LOD) (formerly referred to as the reporting limit and the method detection limit, respectively) and qualification of results outside the working range (if applicable). LCRA receives data down to the LOD but censors data to the LOQ for reporting to CRP. The Reporting Limit may also be used and will be defined as LOQ or LOD by ~~DHL Analytical~~ SPL, Inc – Round Rock.
- Certification of NELAP compliance

Replaces language in section B2, sub-section Sample Containers on page 31 of the FY 2026–2027 CRP QAPP

B2 Sampling Methods

Sample Containers

Certificates from sample container manufacturers are maintained by ELS and ~~DHL~~ SPL. ELS supplies LCRA, UCRA, and TV with new, pre-cleaned containers for water quality monitoring. ~~DHL~~ SPL provides sample containers to COA for water and sediment sample collection. Sample containers are not reused but are properly disposed of after use. Sample containers used for conventional parameters are purchased pre-cleaned and are disposable.

- Bacteriological sample containers are the 120 and 290 mL bottles from IDEXX and contain 1% sodium thiosulfate to neutralize residual chlorine up to 15 mg/l.
- Brown polyethylene bottles are used for chlorophyll *a* sampling.
- Sample containers for metals are new, certified glass or plastic bottles. In addition, materials for collecting metals in water are stored and transported in dust-free containers, such as plastic bags.
- Sample containers for organics are purchased pre-cleaned and certified for organic constituents. ELS and ~~DHL~~ SPL maintain certificates of analysis for organic and metals for sample containers.
- Sample containers may contain preservatives added by laboratory staff prior to sample collection.

Replaces the Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions section on page 40 of the FY 2026–2027 CRP

B4 Quality Control

Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions

Sampling QC excursions are evaluated by the LCRA PM, in consultation with the LCRA QAO. In that differences in sample results are used to assess the entire sampling process, including environmental variability, the arbitrary rejection of results based on pre-determined limits is not practical. Therefore, the professional judgment of the LCRA PM and QAO will be relied upon in evaluating results.

Field blanks for trace elements and trace organics are scrutinized very closely. Field blanks are associated with batches of field samples. In the event of a field blank failure, any target analytes in the ambient sample associated with the field blank should be qualified as not meeting project QC requirements. Notations of blank contamination are noted in the data summaries that accompany data deliverables. Equipment blanks for metals analysis are also scrutinized very closely.

Laboratory measurement quality control failures are evaluated by the laboratory staff. The disposition of such failures and the nature and disposition of the failure is reported to the Laboratory QAO. The Laboratory QAO will discuss the failure with the LCRA PM. If applicable, the LCRA PM will include this information in a CAP and submit the CAP to the TCEQ CRP PM.

The definition of and process for handling deficiencies and corrective action are defined in Section C1.

~~Additionally, in accordance with CRP requirements and the TNI Standard (Volume 1, Module 2, Section 4.5, Subcontracting of Environmental Tests) when a laboratory that is a signatory of this QAPP finds it necessary and/or advantageous to subcontract analyses, the laboratory that is the signatory on this QAPP must ensure that the subcontracting laboratory is NELAP-accredited (when required) and understands and follows the QA/QC requirements included in this QAPP. This includes confirming that the sub-contracting laboratory has LOQs at or below TCEQ AWRLs and performs all required QC analysis outlined in this QAPP. The signatory laboratory is also responsible for QA of the data prior to delivering it to the LCRA, including review of all applicable QC samples related to CRP data. As stated in section 4.5.5 of the TNI Standard, the laboratory performing the subcontracted work shall be indicated in the final report and the signatory laboratory shall make a copy of the subcontractor's report available to the client (LCRA) when requested.~~

Replaces the Instrument/Equipment Calibration, Testing, Inspection, and Maintenance section on page 40 of the FY 2026–2027 CRP

B5 Instrument/Equipment Calibration, Testing, Inspection, and Maintenance

All sampling equipment testing and maintenance requirements are detailed in the SWQM Procedures. Sampling equipment is inspected and tested upon receipt and is assured appropriate for use by Andrew Boswell ~~Colt Petri~~ (ELS), Lexi Woods (UCRA), Kiersten Ivy (TV), and Andrew Clamann (COA). Brad Littrell (BIO-WEST) will inspect and test BIO-WEST electrofishing gear. Equipment records are kept on all field equipment and a supply of critical spare parts is maintained

All laboratory tools, gauges, instrument, and equipment testing and maintenance requirements are contained within laboratory QM(s).

Instrument Calibration and Frequency

Field equipment calibration requirements are contained in the SWQM Procedures. Post-calibration check error limits and the disposition resulting from errors are adhered to. Data collected from field instruments that do not meet the post-calibration check error limits specified in the SWQM Procedures will not be submitted for inclusion into SWQMIS.

Detailed laboratory calibrations are contained within the QM(s).

Replaces the Data Management Process section on page 41 of the FY 2026–2027 CRP

B7 Data Management

Data Management Process

Field water quality data are generated by field staff in ELS, UCRA, TV, and COA and submitted to the LCRA Data Manager as excel spreadsheets.

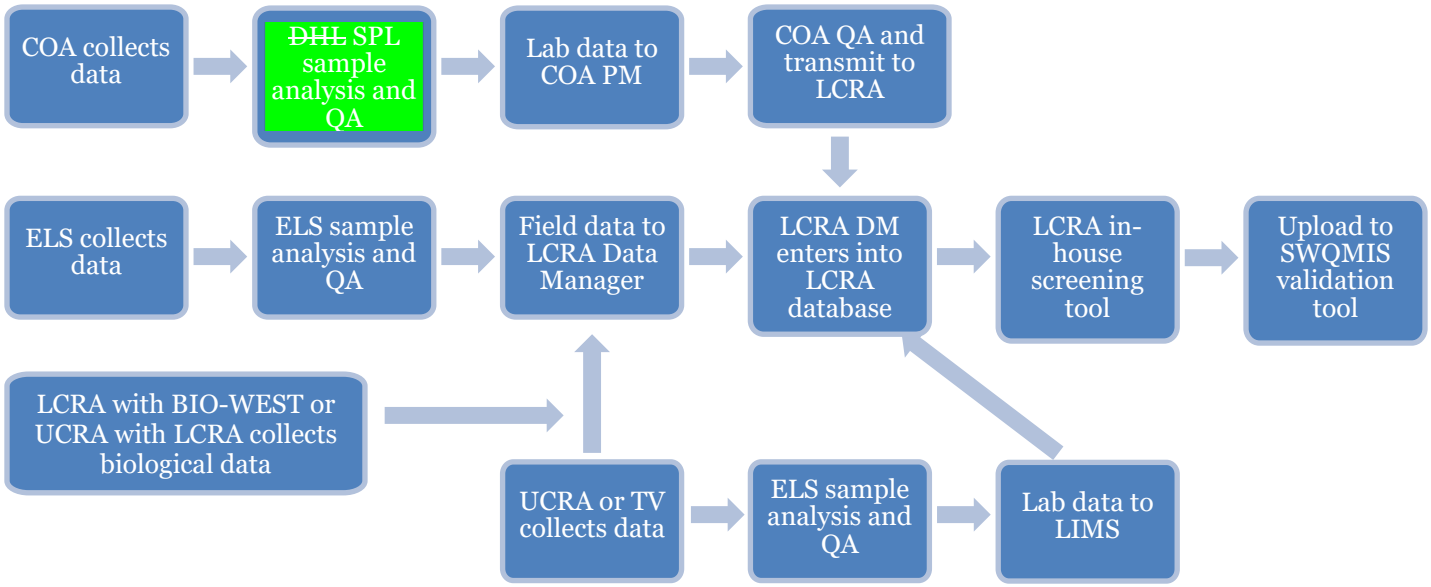
Laboratory data are generated at the bench by the ELS or ~~DHL~~ SPL. The data are quality assured by the laboratory quality assurance manager, or in their absence, by senior staff designee.

The QA of the ELS-produced data is the ultimate responsibility of the ELS QAO and ELS Project Manager. The laboratory data generated from ELS sampling are available in an electronic format to the LCRA Data Manager. The laboratory data generated by UCRA or TV sampling are made available in an electronic format to the LCRA Data Manager and either the UCRA Data Manager or the TV Project Manager, respectively. Hard copies of the data are provided to agencies upon request.

Data generated by ~~DHL~~ SPL is sent to COA for review and is checked for completeness, verification and validation. The COA QAO combines field and lab data and transmits it to the LCRA Data Manager annually approximately at the beginning of the calendar year.

The LCRA Data Manager inserts received data into a Microsoft SQL Server database and performs automated checks of the data using in-house screening tools and adds unique tag identification numbers to the data. The data is then run through the SWQMIS validation tool to ensure correct formatting. The data management process through this step can be seen in Figure B7.1 below.

The data are bundled and transmitted to the TCEQ Project Manager along with a Data Summary Report and Validator Report. Data obtained under different QAPPs or amendments are submitted separately to ensure compliance with the QAPP. The TCEQ project manager reviews the data and associated reports and provides comments or asks for clarification. Upon approval of the data, the TCEQ project manager notifies the TCEQ data manager who transfers the data to SWQMIS.



Replaces section D1 on pages 48 – 51 of the FY 2026–2027 CRP QAPP

D1 Data Review, Verification, and Validation

All field and laboratory data will be reviewed and verified for integrity, continuity, reasonableness, and conformance to project requirements, and then validated against the project objectives and measurement performance specifications which are listed in Section A6 of this QAPP. Only those data which are supported by appropriate quality control data and meet the measurement performance specifications defined for this project will be considered acceptable and will be reported to the TCEQ for entry into SWQMIS.

Verification and Validation Methods

All field and laboratory data will be reviewed, verified and validated to ensure they conform to project specifications.

Data review, verification, and validation will be performed using self-assessments as well as peer and management review as appropriate to the project task. The data review tasks to be performed by field and laboratory staff are listed in the first two columns of Table D1.1. Potential errors are identified by examination of documentation and by manual examination of corollary or unreasonable data; this analysis may be computer-assisted. If a question arises or an error is identified, the manager of the task responsible for generating the data is contacted to resolve the issue. Issues which can be corrected are corrected and documented. If an issue cannot be corrected, the task manager consults with the higher-level project management to establish the appropriate course of action, or the data associated with the issue are rejected and not reported to the TCEQ for storage in SWQMIS. Field and laboratory reviews, verifications, and validations are documented.

After the field and laboratory data are reviewed, another level of review is performed once the data are combined into a data set. This review step, as specified in Table D1.1, is performed by the LCRA DM and QAO. Data review, verification, and validation tasks to be performed on the data set include, but are not limited to, the confirmation of laboratory and field data review, evaluation of field QC results, additional evaluation of anomalies and outliers, analysis of sampling and analytical gaps, and confirmation that all parameters and sampling sites are included in the QAPP.

The Data Review Checklist (see Appendix F) covers three main types of review: data format and structure, data quality review, and documentation review. The Data Review Checklist is completed and sent with the water quality data submitted to the TCEQ to ensure that the review process is being performed.

Another element of the data validation process is consideration of any findings identified during the monitoring systems audit conducted by the TCEQ CRP Lead QAS. Any issues requiring corrective action must be addressed, and the potential impact of these issues on previously collected data will be assessed. After the data are reviewed and documented, the LCRA PM validates that the data meet the data quality objectives of the project and are suitable for reporting to TCEQ.

If any requirements or specifications of the CRP are not met, based on any part of the data review, the responsible party should document the nonconforming activities and submit the information to the LCRA DM with the data in the data summary (See Appendix F). All failed QC checks, missing samples, missing analytes, missing parameters, and suspect results should be discussed in the data summary.

Monitoring agencies under this QAPP have SOPs in place to ensure collection of valid field data. LCRA, UCRA, TV, and BIO-WEST use the latest version of SWQM Procedures manual to guide monitoring efforts. City of Austin water quality field sample collection and processing procedures are

Replaces section D1 on pages 48 – 51 of the FY 2026–2027 CRP QAPP
described in the Water Resource Evaluation (WRE) Section Standard Operating Procedures Manual and are consistent with approved methods as presented in the TCEQ SWQM Procedures manuals.

LIMS are used by ELS and ~~DHL~~ SPL. LIMS consist of a collection of forms, reports, queries and tables that are used to track and manage the analytical process for laboratory reporting.

For ELS, data entry (i.e., instrument readings entered into the LIMS) is performed by the analyst and verified through a multi-level review process. Additionally, LIMS flags data that are outside of program specifications. ELS utilizes a multi-level data review and validation workflow within LIMS prior to data being reported to clients. The final check of the data is performed by the ELS project manager or designee. At ~~DHL~~ SPL, data transformations occur in the following fashion: after the data acquisition by the instrument software is completed and the sample preparation log is prepared, reviewed, and initialed by the analyst, the data is imported electronically into the LIMS for the purpose of report generation and review. All analytical results follow the rules for significant figures. The analyst will verify all imported LIMS data against the raw data records to ensure that the sample results are accurate. When manual integrations are performed, raw data records shall include a complete audit trail for those manipulations (i.e., the reconstruction of the results). The person performing the manual integration must sign and date each chromatogram and document the rationale for performing manual integration (electronic signature is acceptable). If the sample result from any target analyte exceeds the quantitation range, the sample shall be diluted and reported from the reanalysis.

For ELS, data conversions are configured to occur automatically within LIMS. Several factors determine whether conversions are needed, including the particular analytical test, the sample matrix, and any client reporting requirements. Regarding data conversions for ~~DHL~~ SPL, the concentration of each analyte is calculated by using either the average response factors or regression analysis. The analyst must ensure that all confirmed hits are within the calibration range. If not, a dilution will be needed to re-analyze the sample extract. The raw data is converted into the final sample concentration based on the sample weight and final volume of extract. The formulas and acceptance criteria for each analytical test are imbedded in the LIMS for automatic data calculation. The LIMS flags data automatically that does not meet acceptance criteria.

At ELS, when nonconforming analyses are identified, the samples will be prepared again and reanalyzed, where possible. If reanalysis is impossible and data is lost, the ELS Project Manager notifies the client either verbally or via electronic mail that data has been lost. An investigation is initiated and a corrective action report is produced to correct the error and prevent it from reoccurring.

~~DHL~~ SPL evaluates the significance of the nonconforming work, and takes corrective action immediately. A Variance Report is generated, the client is notified if their data has been impacted, and corrective action is placed in the Case Narrative of the Analytical Report. Resumption of work after nonconformance is authorized by the Laboratory General Manager, Laboratory QA Manager, and/or the client. Whenever the quality control goals set for precision or accuracy of data are not achieved, a program of corrective action shall be initiated. QC criteria shall be specified in each individual Standard Operating Procedure (SOP). Corrective action can also be initiated by other items such as control limits, customer concerns, or by method specific criteria.

~~DHL~~ SPL uses data review checklists at each level of review based on project-specific requirements. ~~DHL~~ SPL practices a three-tiered level of analytical data review and reporting.

- The chemist performing the analysis reviews the entire data package (100%), ensuring that all of the data is acceptable and within the guidelines established by the specific method and project-specific requirements.
- After the chemist has reviewed the data, the laboratory supervisor, senior chemist or QA department staff will review the entire package (100%) using the same criteria as the chemist.

Replaces section D1 on pages 48 – 51 of the FY 2026–2027 CRP QAPP

- The Laboratory General Manager (or designee) will review the data package for completeness before the data is released.

When a quality control problem is noted in ~~DHL~~ SPL data, the following steps are taken to identify and correct the problem:

- The raw data records are re-examined by the analyst.
- The analyst re-analyzes the sample(s), as appropriate.
- If the problem is not resolved by re-analysis, the Laboratory General Manager or QA Manager is consulted to provide additional information about rectifying the problem.
- If instrument-related problems cannot be resolved in-house, then equipment repair contractors manufacturer's representatives or outside consultants are contacted as necessary.
- All information is documented on a specific analytical Variance Report, which is reviewed and signed by the QA manager or the Laboratory General Manager and then stored in the associated project folders.
- Clients may authorize the analysis of samples that may not meet QC criteria (e.g. samples out of hold time, samples received above temperature limit). All data resulting from such situations shall be appropriately flagged with data qualifiers in the report.
- All information shall be documented in the final report and summarized in the case narrative. This shall include data flags, if applicable.
- Information on the incident and corrective actions shall be noted in the instrument maintenance logbook (if applicable).

The LCRA Data Manager maintains a CRP Data Submittal Guidance SOP that describes how UCRA, COA, and TV data are processed. The document describes specifics in data checks and data handling. Final checks on the data submitted by agencies represented in this QAPP can also be found in CRP Data Submittal Guidance SOP. The document also contains information on how to upload data into SWQMIS.

Replaces section D1 on pages 48 – 51 of the FY 2026–2027 CRP QAPP

Table D1.1: Data Review Tasks

Data to be Verified	Field Task[1]	Laboratory Task[2]	QA Task[2]	Lead Organization Data Manager Task[3]
Sample documentation complete; samples labeled, sites identified	X			
Field QC samples collected for all analytes as prescribed in the TCEQ SWQM Procedures	X			
Standards and reagents traceable	X	X		
Chain of custody complete/acceptable	X	X		
NELAP Accreditation is current		X	X	
Sample preservation and handling acceptable		X		
Holding times not exceeded		X		
Collection, preparation, and analysis consistent with SOPs and QAPP	X	X	X	
Field documentation (e.g., biological, stream habitat) complete	X			
Instrument calibration data complete	X	X		
QC samples analyzed at required frequency		X	X	
QC results meet performance and program specifications		X	X	
Analytical sensitivity (LOQ/AWRL) consistent with QAPP		X	X	
Results, calculations, transcriptions checked		X	X	
Laboratory bench-level review performed		X		
All laboratory samples analyzed for all scheduled parameters		X	X	
Corollary data agree			X	
Nonconforming activities documented	X	X	X	X
Outliers confirmed and documented; reasonableness check performed				X
Dates formatted correctly	X	X		X
Depth reported correctly and in correct units	X	X		X
TAG IDs correct				X
TCEQ Station ID number assigned				X
Valid parameter codes				X
Codes for submitting entity(ies), collecting entity(ies), and monitoring type(s) used correctly				X
Time based on 24-hour clock				X
Check for transcription errors	X	X	X	X
Sampling and analytical data gaps checked (e.g., all sites for which data are reported are on the coordinated monitoring schedule)			X	X
Field instrument pre- and post-calibration check results within limits	X		X	
10% of data manually reviewed			X	

[1] Field Task Review is performed by field team personnel and overseen by LCRA PM, ELS PM, UCRA DM/QAO, TV PM, and COA PM

[2] Laboratory and QA Task Review is performed by ELS or ~~DHL~~ SPL personnel and overseen by ELS QA Officer and PM, or ~~DHL~~ SPL QA Manager

[3] Lead Organization Data Management Task is performed by LCRA Data Manager and QAO position

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026–2027 CRP QAPP

Appendix A: Measurement Performance Specifications (Table A6.1–29)

Measurement performance specifications define the data quality needed to satisfy project objectives. To this end, measurement performance specifications are qualitative and quantitative statements that:

- clarify the intended use of the data
- define the type of data needed to support the end use
- identify the conditions under which the data should be collected

Appendix A of the QAPP addresses measurement performance specifications, including:

- analytical methodologies
- AWRLs
- limits of quantitation
- bias limits for LCSs
- precision limits for laboratory control sample duplicates (LCSDs)
- completeness goals
- qualitative statements regarding representativeness and comparability

The items identified above should be considered for each type of monitoring activity. The CRP encourages that data be collected to address multiple objectives to optimize resources; however, caution should be applied when attempting to collect data for multiple purposes because measurement performance specifications may vary according to the purpose. For example, limits of quantitation may differ for data used to assess standards attainment and for trend analysis. When planning projects, first priority will be given to the main use of the project data and the data quality needed to support that use, then secondary goals will be considered.

Procedures for laboratory analysis must be in accordance with the most recently published edition of Standard Methods for the Examination of Water and Wastewater, 40 CFR 136, or otherwise approved independently. Only data collected that have a valid TCEQ parameter code assigned in Tables A6 are stored in SWQMIS. Any parameters listed in Tables A6 that do not have a valid TCEQ parameter code assigned will not be stored in SWQMIS.

TABLE A6.1 Measurement Performance Specifications for LCRA field data

Field Parameters					
Parameter	**Units**	**Matrix**	**Method**	**Parameter Code**	**Lab**
TEMPERATURE, WATER (DEGREES CENTIGRADE)	DEG C	water	SM 2550 B and TCEQ SOP V1	00010	Field
TRANSPARENCY, SECCHI DISC (METERS)	meters	water	TCEQ SOP V1	00078	Field
SPECIFIC CONDUCTANCE, FIELD (US/CM @ 25C)	us/cm	water	EPA 120.1 and TCEQ SOP, V1	00094	Field

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026-2027 CRP QAPP

OXYGEN, DISSOLVED (MG/L)	mg/L	water	SM 4500-O G and TCEQ SOP V1	00300	Field
OXYGEN, DISSOLVED (% SATURATION)	%	water	SM 4500-O G and TCEQ SOP V2	00301	Field
PH (STANDARD UNITS)	s.u.	water	EPA 150.1 and TCEQ SOP V1	00400	Field
DAYS SINCE PRECIPITATION EVENT (DAYS)	days	other	TCEQ SOP V1	72053	Field
RESERVOIR STAGE (FEET ABOVE MEAN SEA LEVEL)	FT ABOVE MSL	water	~~TWDB~~ LCRA	00052	Field
RESERVOIR PERCENT FULL* **	% RESERVOIR CAPACITY	water	TWDB	00053	Field
RESERVOIR ACCESS NOT POSSIBLE LEVEL TOO LOW ENTER 1 IF REPORTING	NS	other	TCEQ Drought Guidance	00051	Field
TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	NTU	water	SM 2130B	82078	Field
MAXIMUM POOL WIDTH AT TIME OF STUDY (METERS)**	meters	other	TCEQ SOP V2	89864	Field
MAXIMUM POOL DEPTH AT TIME OF STUDY(METERS)**	meters	other	TCEQ SOP V2	89865	Field
POOL LENGTH, METERS**	meters	other	TCEQ SOP V2	89869	Field
% POOL COVERAGE IN 500 METER REACH**	%	other	TCEQ SOP V2	89870	Field
WIND INTENSITY (1=CALM,2=SLIGHT,3=MOD.,4=STRONG)	NU	other	NA	89965	Field
PRESENT WEATHER (1=CLEAR,2=PTCLDY,3=CLDY,4=RAIN,5=OTHER)	NU	other	NA	89966	Field

* Reporting to be consistent with SWQM guidance and based on measurement capability.
** To be routinely reported when collecting data from perennial pools.
*** As published by the Texas Water Development Board on their website https://www.waterdatafortexas.org/reservoirs/statewide

References:
United States Environmental Protection Agency (USEPA), Clean Water Act Analytical Methods
Standard Methods for the Examination of Water and Wastewater, 24th Edition, 2022 or applicable version
TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).
TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026-2027 CRP QAPP

TABLE A6.3 Measurement Performance Specifications for LCRA conventional data

Conventional Parameters in Water

Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Precision (RPD)	Bias %Rec. of LCS	Lab
ALKALINITY, TOTAL (MG/L AS CACO3)	mg/L	water	SM 2320B	00410	20	20	NA	20	NA	ELS
RESIDUE, TOTAL NONFILTRABLE (MG/L)	mg/L	water	SM 2540D	00530	5	1	NA	~~NA~~ 20[1]	~~NA~~ 80–120	ELS
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	mg/L	water	EPA 350.1 Rev. 2.0 (1993)	00610	0.1	0.02	70–130	20	80–120	ELS
NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	mg/L	water	~~SM 4500-N_{org} B or C and SM 4500-NH_3 B~~ EPA 351.2	00625	0.2	0.2	70–130	20	80–120	ELS
NITRITE PLUS NITRATE, TOTAL ONE LAB DETERMINED VALUE (MG/L AS N)	mg/L	water	SM 4500-NO3 ~~E~~ H	00630	0.05	0.02	70–130	20	80–120	ELS
PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	mg/L	water	EPA 365.~~34~~	00665	~~0.06~~ 0.02	0.02	70–130	20	80–120	ELS
CHLORIDE (MG/L AS CL)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00940	5	5	70–130	20	80–120	ELS
SULFATE (MG/L AS SO4)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00945	5	5	70–130	20	80–120	ELS
PHEOPHYTIN-A UG/L FLUOROMETRIC METHOD	µg/L	water	EPA 445	32213	3	2	NA	NA	NA	ELS
RESIDUE, TOT DISS, UNSPEC CALC BASED ON COND (MG/	mg/L	water	calculation	70294	NA	NA	NA	NA	NA	ELS
ORTHOPHOSPHATE PHOSPHORUS, DISS,MG/L, FILTER >15MIN	mg/L	water	EPA ~~365.3~~ 300.0	70507	0.04	0.04	70–130	20	80–120	ELS

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026-2027 CRP QAPP

CHLOROPHYLL-A, FLUOROMETRIC METHOD, UG/L	µg/L	water	EPA 445.0	70953	3	2	NA	20	80–120	ELS

1 In lieu of LCS/LCSD, sample duplicates will be analyzed.

References:
United States Environmental Protection Agency (USEPA), Clean Water Act Analytical Methods
Standard Methods for the Examination of Water and Wastewater, 24th Edition, 2022 or applicable version
TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).

TABLE A6.13 Measurement Performance Specifications for UCRA conventional data

Conventional Parameters in Water

Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Precision (RPD)	Bias %Rec. of LCS	Lab
NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	mg/L	water	EPA 351.2	00625	0.2	0.2	70–130	20	80–120	ELS
NITRITE PLUS NITRATE, TOTAL ONE LAB DETERMINED VALUE (MG/L AS N)	mg/L	water	SM 4500-NO3 H	00630	0.05	0.02	70–130	20	80–120	ELS
PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	mg/L	water	EPA 365.4	00665	~~0.06~~ 0.02	0.02	70–130	20	80–120	ELS
CHLORIDE (MG/L AS CL)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00940	5	5	70–130	20	80–120	ELS
SULFATE (MG/L AS SO4)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00945	5	5	70–130	20	80–120	ELS
PHEOPHYTIN-A UG/L FLUOROMETRIC METHOD	µg/L	Water	EPA 445	32213	3	2	NA	NA	NA	ELS
RESIDUE, TOT DISS,UNSPEC CALC BASED ON COND (MG/	mg/L	water	calculation	70294	NA	NA	NA	NA	NA	ELS
CHLOROPHYLL-A, FLUOROMETRIC METHOD, UG/L	µg/L	water	EPA 445.0	70953	3	2	NA	20	80–120	ELS

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026–2027 CRP QAPP

References:
United States Environmental Protection Agency (USEPA), Clean Water Act Analytical Methods
Standard Methods for the Examination of Water and Wastewater, 24th Edition, 2022 or applicable version
TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).

TABLE A6.22 Measurement Performance Specifications for COA conventional data

Conventional Parameters in Water

Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Precision (RPD)	Bias %Rec. of LCS	Lab
RESIDUE, TOTAL NONFILTRABLE (MG/L)	mg/L	water	SM 2540D	00530	5	5	NA	~~NA~~ 20[1]	~~NA~~ 80–120	~~DHL~~ SPL
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	mg/L	water	~~EPA 350.1 Rev. 2.0 (1993)~~ SM 4500-NH_3 D	00610	0.1	0.1	70–130	20	80–120	~~DHL~~ SPL
NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	mg/L	water	~~SM 4500-N_{org} B or C and SM 4500-NH_3 B~~ EPA 351.2	00625	0.2	0.2	70–130	20	80–120	AQUA TECH*
NITRITE PLUS NITRATE, TOTAL ONE LAB DETERMINED VALUE (MG/L AS N)	mg/L	water	~~SM 4500-NO_3 E~~ EPA 300.0 Rev. 2.1 (1993)	00630	0.05	0.05	70–130	20	80–120	~~DHL~~ SPL
PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	mg/L	water	EPA 365.3	00665	~~0.06~~ 0.02	~~0.06~~ 0.02	70–130	20	80–120	~~DHL~~ SPL
CHLORIDE (MG/L AS CL)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00940	5	5	70–130	20	80–120	~~DHL~~ SPL
SULFATE (MG/L AS SO4)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00945	5	5	70–130	20	80–120	~~DHL~~ SPL

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026–2027 CRP QAPP

ORTHOPHOSPHATE PHOSPHORUS,DISS,MG/L,FILTER >15MIN	mg/L	water	~~EPA 365.3~~ SM 4500-P E	70507	0.04	0.01	70–130	20	80–120	~~DHL~~ SPL
CHLOROPHYLL-A, FLUOROMETRIC METHOD, UG/L	µg/L	water	EPA 445.0	70953	3	3	NA	20	80–120	~~DHL~~ SPL

1 In lieu of LCS/LCSD, sample duplicates will be analyzed.
*~~DHL~~ SPL sub to Aqua Tech Laboratories

References:
United States Environmental Protection Agency (USEPA), Clean Water Act Analytical Methods
Standard Methods for the Examination of Water and Wastewater, 24th Edition, 2022 or applicable version
TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).

TABLE A6.23 Measurement Performance Specifications for COA bacteria data

Bacteriological Parameters in Water

Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Log Difference of Duplicates	Bias %Rec. of LCS	Lab
***E. COLI*, COLILERT, IDEXX METHOD, MPN/100ML**	MPN/100 mL	water	SM 9223-B**	31699	1	1	NA	0.50*	NA	AQUA TECH***
***E.COLI*, COLILERT, IDEXX, HOLDING TIME**	hours	water	NA	31704	NA	NA	NA	NA	NA	AQUA TECH***

* This value is not expressed as a relative percent difference. It represents the maximum allowable difference between the logarithm of the result of a sample and the logarithm of the duplicate result. See Section B4.
** *E.coli* samples analyzed by these methods should always be processed as soon as possible and within 8 hours. When transport conditions necessitate delays in delivery longer than 6 hours, the holding time may be extended and samples must be processed as soon as possible and within 30 hours.
***~~DHL~~ SPL sub to Aqua Tech Laboratories

References:
Standard Methods for the Examination of Water and Wastewater, 24th Edition, 2022 or applicable version
Annual Book of ASTM Standards, Section 11, Water and Environmental Technology, Volume 11.02, Water
TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).

~~**TABLE A6.24 Measurement Performance Specifications for COA metals in sediment data**~~

~~**Metals in Sediment**~~

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026-2027 CRP QAPP

Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Precision (RPD)	Bias %Rec. of LCS	Lab
ARSENIC, BOTTOM DEPOSITS (MG/KG AS AS DRY WT)	mg/kg	sediment	EPA 6020	01003	16.5	1	70-130	20	80-120	DHL SPL
CADMIUM,TOTAL, BOTTOM DEPOSITS (MG/KG,DRY WT)	mg/kg	sediment	EPA 6020	01028	2.49	0.3	70-130	20	80-120	DHL SPL
CHROMIUM,TOTAL, BOTTOM DEPOSITS (MG/KG,DRY WT	mg/kg	sediment	EPA 6020	01029	55.5	2	70-130	20	80-120	DHL SPL
COPPER, BOTTOM DEPOSITS (MG/KG AS CU DRY WT)	mg/kg	sediment	EPA 6020	01043	74.5	2	70-130	20	80-120	DHL SPL
LEAD, BOTTOM DEPOSITS (MG/KG AS PB DRY WT)	mg/kg	sediment	EPA 6020	01052	64	0.3	70-130	20	80-120	DHL SPL
NICKEL, TOTAL, BOTTOM DEPOSITS (MG/KG,DRY WT)	mg/kg	sediment	EPA 6020	01068	24.3	2	70-130	20	80-120	DHL SPL
SILVER, BOTTOM DEPOSITS (MG/KG AS AG DRY WT)	mg/kg	sediment	EPA 6020	01078	1.1	0.2	70-130	20	80-120	DHL SPL
ZINC, BOTTOM DEPOSITS (MG/KG AS ZN DRY WT)	mg/kg	sediment	EPA 6020	01093	205	2.5	70-130	20	80-120	DHL SPL
IRON, BOTTOM DEPOSITS (MG/KG AS FE DRY WT)	mg/kg	sediment	EPA 6020	01170	20000	37.5	70-130	20	80-120	DHL SPL
MERCURY,TOT. IN BOT. DEPOS. (MG/KG) AS HG DRY WG	mg/kg	sediment	EPA 7471	71921	0.355	0.04	60-140	25	85-115	DHL SPL
SEDIMENT PRTCL.SIZE CLASS >2.0MM GRAVEL %DRY WT*	% DRY WT	sediment	SSSA ASTM D422	80256	NA	NA	NA	%gravel - 30	NA	TAMU HOLT**

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026–2027 CRP QAPP

SOLIDS IN SEDIMENT, PERCENT BY WEIGHT (DRY)	% BY WT	sediment	ASTM D2216	81373	NA	NA	NA	30	NA	DHL SPL
TOTAL ORGANIC CARBON, NPOC(TOC), SED DRY WT, MG/KG*	mg/kg	sediment	EPA 9060	81951	NA	1500	65-135	30	65-135	ALS HOU***
PARTICLE SIZE, 0.05-0.002mm SILT, DRYWT, SEDIMENT*	%	sediment	SSSA ASTM D422	49906	NA	NA	NA	%silt - 30	NA	TAMU HOLT**
PARTICLE SIZE, CLAY0.002-0.0002mm DRYWT, SEDIMENT%*	%	sediment	SSSA ASTM D422	49900	NA	NA	NA	%clay - 30	NA	TAMU HOLT**
SEDIMENT PRCTL.SIZE CLASS, SAND .05-2 MM %DRYWT*	%	sediment	SSSA ASTM D422	49925	NA	NA	NA	%sand - 30	NA	TAMU HOLT**

*Sediment conventionals are not used for regulatory purposes but are extremely important in determining the availability of sediment toxics. Sediment grain size and TOC are recommended when analyzing metals and/or organics in sediment.
** DHL SPL sub to Texas A&M (TAMU) AgriLife Extension Holt Engineering Laboratory
*** DHL SPL sub to ALS Houston Laboratory

References:
United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020
U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136
American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 24th Edition, 2022.
TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).
Soil Science Society of America (SSSA) - Day, P.R. 1965. Particle fractionation and particle-size analysis. p. 545-567. In: C.A. Black, et al. (ed.). Methods of Soil Analysis: Part 1. Agronomy Monogr. 9. ASA and SSSA, Madison, WI.

TABLE A6.25 Measurement Performance Specifications for COA organics in sediment data

Organics in Sediment

Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample	Precision (RPD)	Bias %Rec. of LCS	Lab
ACENAPHTHYLENE, DRY WT, BOTTOM (UG/KG)	µg/kg	sediment	EPA 8270	34203	65	10	40-160	30	40-160	DHL SPL
ACENAPHTHENE, DRY WT, BOTTOM (UG/KG)	µg/kg	sediment	EPA 8270	34208	44.5	10	40-160	30	40-160	DHL SPL
ANTHRACENE DRY	µg/	sediment	EPA	3422	422.	10	40-	3	40-	DHL

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026–2027 CRP QAPP

WTBOTUG/KG	kg		8270	3	5		160	0	160	SPL
BENZO(B)FLUORANTHENE, SEDIMENTS, DRY WT,UG/KG	µg/kg	sediment	EPA 8270	34233	NA	10	40–160	30	40–160	~~DHL~~ SPL
BENZO(K)FLUORANTHENE DRY WTBOT UG/KG	UG/KG	sediment	EPA 8270	34245	NA	10	40–160	30	40–160	~~DHL~~ SPL
BENZO-A-PYRENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34250	725	10	40–160	30	40–160	~~DHL~~ SPL
CHRYSENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34323	645	10	40–160	30	40–160	~~DHL~~ SPL
FLUORANTHENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34379	1115	10	40–160	30	40–160	~~DHL~~ SPL
FLUORENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34384	268	10	40–160	30	40–160	~~DHL~~ SPL
INDENO (1,2,3-CD) PYRENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34406	NA	10	40–160	30	40–160	~~DHL~~ SPL
NAPHTHALENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34445	280.5	10	40–160	30	40–160	~~DHL~~ SPL
PHENANTHRENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34464	585	10	40–160	30	40–160	~~DHL~~ SPL
PYRENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34472	760	10	40–160	30	40–160	~~DHL~~ SPL
BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRYWTBOTUG/KG	µg/kg	sediment	EPA 8270	34524	NA	10	40–160	30	40–160	~~DHL~~ SPL
1,2,5,6-DIBENZANTHRACENE DRY WTBOTUG/KG	µg/kg	sediment	EPA 8270	34559	70	10	40–160	30	40–160	~~DHL~~ SPL
PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY UG/KG	µg/kg	sediment	EPA 8270	39061	NA	133	40–160	30	40–160	~~DHL~~ SPL
BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	µg/kg	sediment	EPA 8270	39076	50	6	40–160	30	40–160	~~DHL~~ SPL
ALDRIN, BOTTOM DEPOS. (UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8270	39333	40	6	40–160	30	40–160	~~DHL~~ SPL
CHLORDANE(TECH MIX&METABS) SED,DRY WT,UG/KG	µg/kg	sediment	EPA 8270	39351	2.4	2	40–160	30	40–160	~~DHL~~ SPL
DIELDRIN IN BOTTOM DEPOS. (UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8270	39383	2.15	2	40–160	30	40–160	~~DHL~~ SPL
ENDRIN IN BOTTOM DEPOS. (UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8270	39393	103.5	6	40–160	30	40–160	~~DHL~~ SPL
TOXAPHENE IN BOTTOM DEPOS.(UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8270	39403	16	250*	40–160	30	40–160	~~DHL~~ SPL
PCBS, BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8082	39519	90	50	40–160	30	40–160	~~DHL~~ SPL
DIAZINON IN BOT. DEPOS. (UG/KG DRY SOLIDS)**	µg/kg	sediment	EPA 8270	39571	NA	6	40–160	30	40–160	~~DHL~~ SPL
GUTHION, BOTTOM DEPOSITS (UG/KG DRY	µg/kg	sediment	EPA 8270	39581	NA	6	40–160	30	40–160	~~DHL~~ SPL

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026–2027 CRP QAPP

SOLIDS)										
2,4-D, BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8321	39731	NA	40	40–160	30	40–160	~~DHL~~ SPL
2,4,5-T, BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8321	39741	NA	40	40–160	30	40–160	~~DHL~~ SPL
SILVEX, BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8321	39761	NA	40	40–160	30	40–160	~~DHL~~ SPL
DEMETON IN SEDIMENT (SYSTOX) DRY WEIGHT (UG/KG)	µg/kg	sediment	EPA 8270	82400	NA	6	40–160	30	40–160	~~DHL~~ SPL
METHYL PARATHION, IN BOT. DEPOS., (UG/KG DRY SOLIDS)	µg/kg	sediment	EPA 8270	39601	NA	6	10-400	30	40-160	~~DHL~~ SPL
DICAMBA, (BANVEL) SED, DRYWT (UG/KG)	µg/kg	sediment	EPA 8321	38444	NA	400	10-400	30	56-133	~~DHL~~ SPL
DINOSEB, SED DRYWT, (UG/KG)	µg/kg	sediment	EPA 8321	38781	NA	40	10-300	30	20-142	~~DHL~~ SPL

*Due to GCMS instrument technology, the laboratory is above the TCEQ-AWRL
**Diazinon by EPA 8270 is not offered by TCEQ's Field of Accreditation eventhough it is an approved EPA method. According to 30 TAC 25, Section 25.6, TCEQ may accept data where the analytical lab provides data for which the commission does not offer accreditation.

References:
United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020
American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 24th Edition, 2022.
TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).

TABLE A6.28 Measurement Performance Specifications for Travis County conventional data

Conventional Parameters in Water

Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Precision (RPD)	Bias %Rec. of LCS	Lab
ALKALINITY, TOTAL (MG/L AS CACO3)	mg/L	water	SM 2320B	00410	20	20	NA	20	NA	ELS
RESIDUE, TOTAL NONFILTRABLE (MG/L)	mg/L	water	SM 2540D	00530	5	1	NA	~~NA~~ 20 [1]	~~NA~~ 80–120	ELS
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	mg/L	water	EPA 350.1 Rev. 2.0 (1993)	00610	0.1	0.02	70–130	20	80–120	ELS

Replaces text on page 53 and corresponding tables on page 53 – 92 of the FY 2026–2027 CRP QAPP

NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	mg/L	water	EPA 351.2	00625	0.2	0.2	70–130	20	80–120	ELS
NITRITE PLUS NITRATE, TOTAL ONE LAB DETERMINED VALUE (MG/L AS N)	mg/L	water	SM 4500-NO3 E	00630	0.05	0.02	70–130	20	80–120	ELS
PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	mg/L	water	~~EPA 150.1 and TCEQ SOP V1~~ EPA 365.4	00665	~~0.06~~ 0.02	0.02	70–130	20	80–120	ELS
CHLORIDE (MG/L AS CL)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00940	5	5	70–130	20	80–120	ELS
SULFATE (MG/L AS SO4)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00945	5	5	70–130	20	80–120	ELS
PHEOPHYTIN-A UG/L FLUOROMETRIC METHOD	µg/L	Water	EPA 445	32213	3	2	NA	NA	NA	ELS
RESIDUE, TOT DISS,UNSPEC CALC BASED ON COND (MG/	mg/L	water	calculation	70294	NA	NA	NA	NA	NA	ELS
ORTHOPHOSPHATE PHOSPHORUS,DISS,MG/L, FILTER >15MIN	mg/L	water	EPA 300.0	70507	0.04	0.04	70–130	20	80–120	ELS
CHLOROPHYLL-A, FLUOROMETRIC METHOD, UG/L	µg/L	water	EPA 446.0	70953	3	2	NA	20	80–120	ELS

1 In lieu of LCS/LCSD, sample duplicates will be analyzed.

References:

United States Environmental Protection Agency (USEPA), Clean Water Act Analytical Methods

Standard Methods for the Examination of Water and Wastewater, 24th Edition, 2022 or applicable version

TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).

Replaces pages 95–107 of the FY 2026–2027 CRP QAPP

Appendix B: Task 3 Work Plan & Sampling Process Design and Monitoring Schedule (Plan)

Sample Design Rationale FY 2027

The sample design is based on the legislative intent of CRP. Under the legislation, the Basin Planning Agencies have been tasked with providing data to characterize water quality conditions in support of the Texas Integrated Report of Surface Water Quality, and to identify significant long-term water quality trends. Based on Steering Committee input, achievable water quality objectives and priorities and the identification of water quality issues are used to develop work plans which are in accord with available resources. As part of the Steering Committee process, the LCRA coordinates closely with the TCEQ and other participants to ensure a comprehensive water monitoring strategy within the watershed.

There are on-going nutrient and chlorophyll *a* concerns throughout the basin especially downstream of urban areas. Chlorides and sulfates are always of particular concern because they are tied to water quantity within the basin. Lastly, there are on-going bacteria, dissolved oxygen, and metal impairments at several locations in the basin. Most sites require continued monitoring of all historical parameters to assess degradation or improvement as stakeholders work within the basin to mitigate the concerns and impairments.

Routine Monitoring is scheduled in advance without intentionally trying to target any certain environmental conditions. Samples are collected regardless of the conditions encountered.

Aquatic Life Monitoring is a routine monitoring type that occurs during the index period (March 15th – October 15th). ALM monitoring occur during the Biased Season because these events are scheduled for a certain time of year to capture the conditions characteristic of that time of year. Samples are collected regardless of the flow condition encountered if conditions are representative of the site or are considered normal.

The following changes or additions have been made to the monitoring schedule for FY 2027:

- LCRA will drop station 12210 monitoring conventional, bacteria, flow, and field 4 times a year.
- LCRA will drop station 12286 monitoring conventional, bacteria, flow, and field 6 times a year.
- LCRA will add station 21809 monitoring conventional, bacteria, flow, and field 6 times a year.
- LCRA will add station 22308 to monitor conventional, bacteria, flow, and field 6 times a year. This station was added because the AU was added to 303d list in 2026 IR.
- LCRA will add station 22651 to monitor conventional, bacteria, and field 6 times a year.
- LCRA will add station 22652 to monitor conventional, bacteria, flow, and field 4 times a year.
- LCRA submitted a SLOC change request for stations 17020 and 17017. The coordinates in SWQMIS are incorrect. Monitoring team provided correct sampling coordinates.
- LCRA will drop station 12463 collection of 24 hr dissolved oxygen, nekton, aquatic habitat, benthics, conventional, bacteria, field, and flow 2 times a year (1 critical and 1 index).
- LCRA will drop station 12436 collection of 24 hr dissolved oxygen, nekton, aquatic habitat, benthics, field, and flow 2 times a year (1 critical and 1 index).
- LCRA will add collection of 24 hr dissolved oxygen, nekton, aquatic habitat, benthics, field, and flow 2 times a year (1 critical and 1 index) to stations 17358, 20662, and 22387.
- UCRA will drop stations 17244 and 17474 collection of 24 hr dissolved oxygen, nekton, aquatic habitat, benthics, field and flow 2 times a year (1 critical and 1 index).
- UCRA will add collection of 24 hr dissolved oxygen, nekton, aquatic habitat, benthics, field and flow 2 times a year (1 critical and 1 index) to station 12166.
- UCRA will add collection of nekton, aquatic habitat, benthics and field 2 times a year (1

critical and 1 index) to station 12409.

- UCRA will drop station 17002 collection of conventionals, flow and field 4 times a year.
- Travis County will add stations 22659, 22660, 22662, 22663, 22664, 22665, and station 12186. Conventionals, bacteria, flow and field will be collected 4 times a year.
- Travis County will drop station 20808 collection of conventionals, bacteria, flow and field 4 times a year. Travis County will add station 22661 and collect conventionals, bacteria, flow and field 4 times a year. Station 22661 was added upstream of station 20808 and within the same AU.
- Travis County will drop station 18762 collection of conventionals, bacteria, flow and field 4 times a year. Travis County will add station 12241 and collect conventionals, bacteria, flow and field 4 times a year.
- The City of Austin will add stations 12495, 15697, 17469, and 22666 and collect conventionals, bacteria, flow and field 4 times a year.
- The City of Austin will add station 14071 and collect conventionals, bacteria, and field 9 times a year.
- The City of Austin will drop station 17251 collection of conventionals, bacteria, flow and field 4 times a year. They will add station 22653 and collect conventionals, bacteria, flow and field 4 times a year.
- The City of Austin will drop station 12294 and 12476 collection of metals in sediment once a year.

Site Selection Criteria

This data collection effort involves monitoring routine water quality using procedures that are consistent with the TCEQ SWQM program. Some general guidelines are followed when selecting sampling sites, as outlined below, and discussed thoroughly in SWQM Procedures, Volumes I and II. Overall consideration is given to accessibility and safety. All monitoring activities have been developed in coordination with the CRP Steering Committee and with the TCEQ. The site selection criteria specified are those the TCEQ would like considered to produce data which is complementary to that collected by the state and which may be used in assessments, etc.

1. Locate stream sites so that samples can be safely collected from the centroid of flow. Centroid is defined as the midpoint of that portion of stream width which contains 50 percent of the total flow. If multiple potential sites on a stream segment are appropriate for monitoring, choose one that would best represent the water body, and not a site that displays unusual conditions or contaminant source(s). Avoid backwater areas or eddies when selecting a stream site.
2. At a minimum for reservoirs, locate sites near the dam (reservoirs) and in the major arms. Larger reservoirs might also include stations in the middle and upper (riverine) areas. Select sites that best represent the water body by avoiding coves and back water areas. A single monitoring site is considered representative of 25 percent of the total reservoir acres, but not more than 5,120 acres.
3. Monitoring sites are selected to maximize stream coverage or basin coverage. Very long segments may require more stations. As a rule of thumb, stream segments between 25 and 50 miles long require two stations, and longer than 50 miles require three or more depending on the existence of areas with significantly different sources of contamination or potential water quality concerns. Major hydrological features, such as the confluence of a major tributary or an instream dam, may also limit the spatial extent of an assessment based on one station.
4. Because historical water quality data can be very useful in assessing use attainment or impairment, it may be best to use sites that are on current or past monitoring schedules.
5. All classified segments (including reservoirs) should have at least one Monitoring site that adequately characterizes the water body, and monitoring should be coordinated with the TCEQ or other qualified monitoring entities reporting routine data to TCEQ.
6. Monitoring sites may be selected to bracket sources of pollution, influence of tributaries, changes in land uses, and hydrological modifications.
7. Sites should be accessible. When possible, stream sites should have a USGS or IBWC stream flow

gauge. If not, it should be possible to conduct flow measurement during routine visits.

Replaces pages 95–107 of the FY 2026–2027 CRP QAPP

Monitoring Sites for FY 2027

Table B1.1 Sample Design and Schedule, FY 2027

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
COLORADO RIVER TIDAL AT SELKIRK ISLAND 2 MI DOWNSTREAM FROM FM 521 SW OF WADSWORTH	12281	1401	12	LC	LC	RT								6	6		6		Coastal
COLORADO RIVER AT SH 35 BRIDGE AT BAY CITY	12284	1402	12	LC	LC	RT								6	6	6	6		~~Lower Colorado River~~ Coastal
~~COLORADO RIVER APPROXIMATELY 367 METERS DOWNSTREAM OF SH 183 IN WHARTON~~	~~12286~~	~~1402~~	~~12~~	~~LC~~	~~LC~~	~~RT~~								~~6~~	~~6~~	~~6~~	~~6~~		~~Lower Colorado River~~
COLORADO RIVER AT OLD HWY 71 IN COLUMBUS	12290	1402	12	LC	LC	RT								6	6	6	6		Lower Colorado River
COLORADO RIVER APPROXIMATELY 15 M OFF EAST BANK IMMEDIATELY DOWNSTREAM OF US ALT 90 NEAR ALTAIR	18351	1402	12	LC	LC	RT								6	6	6	6		~~Lower Colorado River~~ Coastal
COLORADO RIVER 20 METERS UPSTREAM OF FM 960 NEAR GLEN FLORA	21809	1402	12	LC	LC	RT								6	6	6	6		Coastal
FAYETTE RESERVOIR AT THE MID POINT OF THE LAKE OVER CEDAR CREEK CHANNEL APPROX 150 YDS NORTH OF THE BAFFLE DIKE	17017	1402G	11	LC	LC	RT								6	6		6		Lower Colorado River
LAKE AUSTIN NEAR TOM MILLER DAM TO THE WEST OF LAKE AUSTIN BLVD	12294	1403	11	LC	AU	RT						~~1~~	1	1	1		1	field added to match Bact and Conv in consult W/ COA. COA samples May, LCRA samples July & Sep	Austin
LAKE AUSTIN NEAR TOM MILLER DAM TO THE WEST OF LAKE AUSTIN BLVD	12294	1403	11	LC	LC	RT								8	8		8		Austin
LAKE AUSTIN NEAR METROPOLITAN PARK TO THE SOUTH OF CITY PARK RD AND TO THE EAST OF WESTON RD	12297	1403	11	LC	AU	RT								1	1		1	COA samples May, LCRA now samples July & Sep	Austin
LAKE AUSTIN NEAR METROPOLITAN PARK TO THE SOUTH OF CITY PARK RD AND TO THE EAST OF WESTON RD	12297	1403	11	LC	LC	RT								8	8		8		Austin
BULL CREEK AT LOOP 360 1 MILE NORTH OF FM 2222 INTERSECTION WEST OF AUSTIN	12216	1403A	11	LC	AU	RT									4	4			Austin
WEST BULL CREEK 70 METERS WEST OF INTERSECTION OF JESTER BLVD AND RR 2222 AND 290M DOWNSTREAM OF THE CONFLUENCE WITH COW FORK BULL CREEK	17468	1403B	11	LC	AU	RT									4	4			Austin

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
SPICEWOOD TRIBUTARY OF SHOAL CREEK APPROX 13 METERS DOWNSTREAM OF CEBERRY DR IN AUSTIN	16316	1403J	11	LC	AU	RT								4	4	4	4	Added for TMDL	Austin
TAYLOR SLOUGH SOUTH 20 M DOWNSTREAM OF PECOS STREET SOUTH OF RIVER ROAD IN AUSTIN	17294	1403K	11	LC	AU	RT								4	4	4	4	Added for TMDL	Austin
DEER CREEK AT RUNNING DEER TRAIL 0.35 KM WEST AND 90 M NORTH FROM CONFLUENCE WITH LAKE AUSTIN	22490	1403L	11	LC	TV	RT								4	4	4	4		Austin
BEAR CREEK IMMEDIATELY DOWNSTREAM OF FRITZ HUGHES PARK ROAD DOWNSTREAM MANSFIELD DAM NORTHWEST OF AUSTIN	17269	1403Q	11	LC	TV	RT								4	4	4	4		Austin
UNNAMED TRIB TO LAKE AUSTIN IMMEDIATELY DOWNSTREAM OF WESTLAKE DR	16310	1403R	11	LC	TV	RT								4	4	4	4		Austin
LAKE TRAVIS NEAR DAM AT LCRA TRAVIS COUNTY PARK	12302	1404	11	LC	LC	RT								6	6		6		Lake Travis
LAKE TRAVIS NEAR SANDY CREEK IMMEDIATELY WEST OF SANDY CREEK PARK	12307	1404	11	LC	LC	RT								6	6		6		Lake Travis
LAKE TRAVIS AT ARKANSAS BEND TO THE WEST OF RANCH ROAD 620	12309	1404	11	LC	LC	RT								6	6		6		Lake Travis
LAKE TRAVIS MID LAKE AT CONFLUENCE WITH COW CREEK ARM AT PACE BEND APPROXIMATELY 2.02 KILOMETERS TO THE SOUTH OF FM 1431	12313	1404	11	LC	LC	RT								6	6		6		Lake Travis
LAKE TRAVIS NEAR SPICEWOOD EAST OF SHAW RD AND NORTH OF MULE SHOE BEND RD	12316	1404	11	LC	LC	RT								6	6		6		Lake Travis
LAKE TRAVIS IN THE HURST CREEK ARM APPROX 200 YDS UPSTREAM OF HURST HARBOR NEAR LADIN LANE IN LAKEWAY SUBDIVISION	15428	1404	11	LC	LC	RT								6	6		6		Lake Travis
LAKE TRAVIS IN BEE CREEK COVE 191 M NORTH AND 443 M WEST OF THE INTERSECTION OF BEE CREEK ROAD AND CORY LANE	20070	1404	11	LC	LC	RT								6	6		6		Lake Travis
BIG SANDY CREEK IMMEDIATELY UPSTREAM OF NAMELESS ROAD 0.27 KM NORTH FROM NAMELESS RD AND LINDEMAN LANE INTERSECTION	22488	1404	11	LC	TV	RT								4	4	4	4		Lake Travis

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
BEE CREEK UPSTREAM OF LAKE TRAVIS 160 M SOUTH AND 120 M WEST FROM BEE CREEK ROAD AND TESSA HEIGHTS LANE INTERSECTION	22491	1404	11	LC	TV	RT								4	4	4	4		Lake Travis
BIG SANDY CREEK 90 METERS DOWNSTREAM OF ROUND MOUNTAIN ROAD 100 METERS SOUTH OF ROUND MOUNTAIN ROAD AND BIG SANDY DRIVE INTERSECTION	22660	1404	11	LC	TV	RT								4	4	4	4		Lake Travis
LAKE TRAVIS PEDERNALES RIVER ARM NEAR TERMINUS OF PEDERNALES DRIVE 540 METERS WEST OF HAYNIE FLAT ROAD AND JANICE LANE INTERSECTION	22651	1404	11	LC	LC	RT								6	6		6		Lake Travis
COW CREEK 20 METERS UPSTREAM OF SINGLETON BEND DRIVE 180 METERS SOUTH AND 525 METERS WEST OF FM 1431 AND SINGLETON BEND ROAD INTERSECTION	22659	1404B	11	LC	TV	RT								4	4	4	4		Lake Travis
LICK CREEK 693 METERS DOWNSTREAM OF PEDERNALES CANYON TRAIL WEST OF SH 71	18661	1404D	11	LC	TV	RT								4	4	4	4		Lake Travis
LAKE MARBLE FALLS NEAR MAX STARCKE DAM/TO SOUTHEAST OF COMINO REAL RD	12319	1405	11	LC	LC	RT								6	6		6		Lake Travis
LAKE LYNDON B JOHNSON NEAR ALVIN WIRTZ DAM APPROX 658 METERS NORTH OF FM 2147	12324	1406	11	LC	LC	RT								6	6		6		Lake LBJ
LAKE LYNDON B JOHNSON AT CONFLUENCE WITH SANDY CREEK APPROX 453 METERS TO THE NORTH OF BLUE MOUNTAIN RD	12327	1406	11	LC	LC	RT								6	6		6		Lake LBJ
LAKE LYNDON B JOHNSON AT CONFLUENCE WITH LLANO RIVER ARM NEAR KINGSLAND APPROX 51 METERS TO THE SOUTHWEST OF SCENIC RD	12330	1406	11	LC	LC	RT								6	6		6		Lake LBJ
SANDY CREEK APPROXIMATELY 73 M DOWNSTREAM OF SH 71 SOUTH OF KINGSLAND	12214	1406A	11	LC	LC	RT								6	6	6	6		Lake LBJ
INKS LAKE NEAR INKS DAM APPROX 161 METERS TO THE NORTHEAST OF ROY INKS DAM	12336	1407	11	LC	LC	RT								6	6		6		Lake LBJ
CLEAR CREEK 1.28 KM UPSTREAM OF SH 29	18710	1407A	11	LC	LC	RT					6			6		6	6	Conv: include sulfate and chloride only	Lake LBJ
LAKE BUCHANAN NEAR BUCHANAN DAM APPROX 475 METERS TO THE WEST OF CORONADO RD	12344	1408	11	LC	LC	RT								6	6		6		Lake Buchanan

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
LAKE BUCHANAN AT ROCKY POINT APPROX 1.3.KM NORTHWEST OF ROCKY RIDGE	12347	1408	11	LC	LC	RT								6	6		6		Lake Buchanan
LAKE BUCHANAN AT CONFLUENCE OF COUNCIL AND MORGAN CREEKS APPROX 302 METERS SOUTH OF LAKESHORE RD	12349	1408	11	LC	LC	RT								6	6		6		Lake Buchanan
LAKE BUCHANAN NEAR BEAVER CREEK COVE ADJACENT TO PARADISE POINT APPROX 1.4 KM TO THE SOUTH OF RANCH ROAD 2341	12352	1408	11	LC	LC	RT								6	6		6		Lake Buchanan
LAKE BUCHANAN NEAR LAKE HEADWATER APPROX 687 METERS TO THE NORTHEAST OF LLANO TOW VALLEY RD	12353	1408	11	LC	LC	RT								6	6		6		Lake Buchanan
COLORADO RIVER AT US 190 EAST OF SAN SABA	12355	1409	9	LC	LC	RT								6	6	6	6		Lake Buchanan
COLORADO RIVER MID CHANNEL 75 M UPSTREAM OF THE YANCEY CREEK CONFLUENCE WEST OF LAMPASAS	17358	1409	9	LC	LC	BS	2	2	2	2				2	2	2	2	FY27 ALM Station	Lake Buchanan
CHEROKEE CREEK AT FM 501 5 MILES WEST OF BEND	12274	1409A	9	LC	LC	RT								4	4	4	4		Lake Buchanan
COLORADO RIVER BRIDGE ON US 377 AT WINCHELL	12358	1410	3	LC	LC	RT								6	6	6	6		Lake Buchanan
E V SPENCE RESERVOIR APPROX 5.3 KM WEST OF STATE HIGHWAY 208	12359	1411	8	LC	UC	RT								2	2		2	Chlorophyll 2x year, UCRA Sample Q2 and Q4	Upper Colorado River
E V SPENCE RESERVOIR FM 2059 BRIDGE NEAR SILVER	12360	1411	8	LC	UC	RT								4	4	4	4		Upper Colorado River
E V SPENCE RESERVOIR AT DAM 1.75 KM WEST OF THE INTERSECTION OF FM 1904 AND ST LOOP 229	13863	1411	8	LC	UC	RT								2	2		2	Chlorophyll 2x year, UCRA Sample Q2 and Q4	Upper Colorado River
~~COLORADO RIVER AT MITCHELL CR343/PECAN CROSSING 7.5KM WEST OF SH208 AND 25.0KM SOUTH OF COLORADO CITY AT IH20~~	~~17002~~	~~1412~~	~~3~~	~~LC~~	~~UC~~	~~RT~~								~~4~~		~~4~~	~~4~~	~~Chlorophyll 4x year~~	~~Upper Colorado River~~
LAKE J B THOMAS AT DAM APPROX 1.0 KM WEST OF THE INTERSECTION OF FM 1298 AND SCURRY CR 8	21614	1413	3	LC	UC	RT								2	2		2	Chlorophyll 2x year, UCRA Sample Q2 and Q4	Upper Colorado River
PEDERNALES RIVER AT CR 962 AT HAMMETT'S CROSSING APPROX 532 METERS TO THE EAST OF HAMMETS ROAD	12369	1414	11	LC	LC	RT								6	6	6	6		Lake Travis
PEDERNALES RIVER AT FM 1320	12375	1414	11	LC	LC	RT								6	6	6	6		Lake Travis
PEDERNALES RIVER AT GOEHMAN LANE CROSSING EAST OF FREDRICKSBURG OFF	12377	1414	13	LC	LC	RT								6	6	6	6		Lake Travis

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
OF US 290 E APPROX 1.5 KM TO THE NORTH OF US HWY290																			
PEDERNALES RIVER AT RR 1623 IN STONEWALL	15419	1414	13	LC	LC	RT								6	6	6	6		Lake Travis
PEDERNALES RIVER AT US 87 APPROX 3.0 MILES SOUTH OF FREDERICKSBURG	17472	1414	13	LC	LC	RT								6	6	6	6		Lake Travis
PEDERNALES RIVER 20 METERS UPSTREAM OF PEDERNALES HILLS ROAD	21398	1414	11	LC	LC	RT								6	6	6	6		Lake Travis
HAMILTON CREEK DOWNSTREAM OF HAMILTON POOL ROAD 1.33 KM SOUTH AND 1.0 KM EAST FROM CONFLUENCE WITH PEDERNALES RIVER	22489	1414	11	LC	TV	RT								4	4	4	4		Lake Travis
LLANO RIVER COUNTY ROAD 6.5 MILES UPSTREAM FROM KINGSLAND/LLANO RIVER AT RANCH ROAD 3404	12383	1415	11	LC	LC	RT								6	6	6	6		Lake LBJ
LLANO RIVER 0.4 MILE DOWNSTREAM FROM BRIDGE ON SH 16 AT LLANO	12386	1415	11	LC	LC	RT								6	6	6	6		Lake LBJ
LLANO RIVER AT YATES CROSSING ON RR 385 15 MI EAST OF JUNCTION IN KIMBLE COUNTY	14231	1415	8	LC	LC	RT								4	4	4	4		Lake LBJ
SOUTH LLANO RIVER APPROXIMATELY 10 MI UPSTREAM OF SOUTH LLANO RIVER STATE PARK 204 YD UPSTREAM OF SECOND US 377 CROSSING	18197	1415	8	LC	LC	RT								4	4		4		Lake LBJ
NORTH LLANO RIVER 75 METERS UPSTREAM OF US 377 IN JUNCTION	21548	1415	8	LC	LC	RT								4	4	4	4		Lake LBJ
LLANO RIVER IMMEDIATELY UPSTREAM OF RR 1871 APPROX 470 METERS WEST OF INTERSECTION OF RR 1871 AND CAMP HOLLAND ROAD	22385	1415	8	LC	LC	RT								4	4	4	4		Lake LBJ
CEDAR CREEK IMMEDIATELY UPSTREAM OF RR 2169 AND APPROXIMATELY 0.37 KM UPSTREAM OF THE CONFLUENCE WITH THE SOUTH LLANO RIVER	22494	1415	8	LC	LC	RT								4	4	4	4		Lake LBJ
JOHNSON FORK CREEK 10 METERS UPSTREAM OF KIMBLE CR 410 SOUTHEAST OF JUNCTION	21812	1415A	8	LC	LC	RT								4	4	4	4		Lake LBJ
JAMES RIVER NEAR LOW WATER CROSSING 2.9 KILOMETERS SOUTH AND 2.62 KILOMETERS WEST OF JAMES RIVER ROAD AND EAGLE RIDGE DRIVE INTERSECTION	22652	1415C	8	LC	LC	RT								4	4	4	4		Lake LBJ
~~JAMES RIVER/AT JAMES RIVER RD AT UPPER MASON COUNTY ROAD CROSSING 14 MILES SOUTHWEST OF MASON~~	~~12210~~	~~1415C~~	~~8~~	~~LC~~	~~LC~~	~~RT~~								~~4~~	~~4~~	~~4~~	~~4~~		~~Lake LBJ~~

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Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
SAN SABA RIVER AT SH 16 NORTH OF SAN SABA	12392	1416	9	LC	LC	RT								6	6	6	6		Lake Buchanan
SAN SABA RIVER IMMEDIATELY DOWNSTREAM OF US87	17004	1416	8	LC	LC	RT								4	4	4	4		Lake Buchanan
SAN SABA RIVER AT COUNTY ROAD 340/COTTON BELT ROAD	20662	1416	9	LC	LC	BS	2	2	2	2				2	2	2	2	FY27 ALM Station	Lake Buchanan
BRADY CREEK 2.81 KM DOWNSTREAM OF RR 714	14232	1416A	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Lake Buchanan
BRADY CREEK AT ELM STREET IN BRADY IMMEDIATELY DOWNSTREAM OF LOW WATER CROSSING	17005	1416A	8	LC	UC	BS	2									2		UCRA sample in Q3 and Q4	Lake Buchanan
BRADY CREEK AT ELM STREET IN BRADY IMMEDIATELY DOWNSTREAM OF LOW WATER CROSSING	17005	1416A	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Lake Buchanan
BRADY CREEK RESERVOIR MID LAKE NEAR DAM/SOUTHEAST BOUND OFF RANCH ROAD 3022	12179	1416B	8	LC	UC	RT								4	4		4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Lake Buchanan
LOWER PECAN BAYOU AT FM 573 SOUTHWEST OF MULLIN	12394	1417	9	LC	LC	RT								6	6	6	6		Pecan Bayou
CONCHO RIVER BRIDGE ON US83 AT PAINT ROCK	12401	1421	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Concho River
CONCHO RIVER AT FM381	12402	1421	8	LC	UC	RT								4		4	4		Concho River
CONCHO RIVER AT FM1692 SOUTH OF MILES	12403	1421	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Concho River
CONCHO RIVER AT VERIBEST PARK APPROX 388 METERS TO THE NORTHEAST OF VERIBEST PARK RD	12405	1421	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x per year	Concho River
CONCHO RIVER AT FM380 NEAR VERIBEST	12407	1421	8	LC	UC	RT								4	4	4	4		Concho River
CONCHO RIVER 235 M DOWNSTREAM OF S BELL ST AND 540 M DOWNSTREAM FROM CONFLUENCE OF NORTH AND SOUTH FORKS IN SAN ANGELO	12409	1421	8	LC	UC	BS	2	2	2	2						2	2	24 hour DO sampling and FY27 UCRA ALM Site	Concho River
CONCHO RIVER 235 M DOWNSTREAM OF S BELL ST AND 540 M DOWNSTREAM FROM CONFLUENCE OF NORTH AND SOUTH FORKS IN SAN ANGELO	12409	1421	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Concho River
NORTH CONCHO RIVER 20M UPSTREAM OF IRVING STREET DAM IN SAN ANGELO TOM GREEN COUNTYTEXAS	12412	1421	8	LC	UC	BS	2									2		24 hour DO sampling. Flow is measured at 15886	Concho River
CONCHO RIVER SOUTH FORK AT US87	12416	1421	8	LC	UC	RT								4	4	4	4		Concho River
NORTH CONCHO RIVER AT CADDO ST IN SAN ANGELO	15886	1421	8	LC	UC	BS	2									2		24 hour DO sampling	Concho River

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Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
NORTH CONCHO RIVER AT CADDO ST IN SAN ANGELO	15886	1421	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Concho River
DRY HOLLOW CREEK IMMEDIATELY DOWNSTREAM OF FM 380 APPROX 5.7 KM EAST OF FM 381	22480	1421A	8	LC	UC	RT								4		4	4		Concho River
KICKAPOO CREEK AT FM 380	12255	1421B	8	LC	UC	RT								4		4	4		Concho River
LIPAN CREEK IMMEDIATELY DOWNSTREAM OF FM 381 APPROX 1.3 KM NORTH OF FM 380	22481	1421C	8	LC	UC	RT								4		4	4		Concho River
LAKE NASWORTHY 40 M WEST OF DAM CENTERPOINT APPROX 1.3 KM TO THE NORTH OF COUNTRY CLUB RD	12418	1422	8	LC	UC	RT								4	4		4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Concho River
LAKE NASWORTHY IN RIVER CHANNEL IN SOUTH CONCHO ARM 880 M WEST AND 220 M NORTH OF SOUTH COUNTRY CLUB ROAD AT LAS LOMAS COURT	12419	1422	8	LC	UC	RT								4	4		4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Concho River
LAKE NASWORTHY MIDDLE COVE 120 M DOWNSTREAM OF CENTER POINT OF CONFLUENCE OF MIDDLE CONCHO AND SPRING CREEK CHANNELS	12421	1422	8	LC	UC	RT								4	4		4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Concho River
TWIN BUTTES RESERVOIR AT DAM 695 M SOUTH AND 195 M WEST OF INTAKE STRUCTURE TO LAKE NASWORTHY	12422	1423	8	LC	UC	RT								4	4		4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Concho River
TWIN BUTTES RESERVOIR SOUTH POOL RIVER CHANNEL NEAR DAM APPROX 21 METERS TO THE WEST OF MOTL DAM	12425	1423	8	LC	UC	RT								4	4		4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Concho River
SPRING CREEK S BANK 20 M DOWNSTREAM OF FM2335 NEAR TANKERSLEY	12161	1423A	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Concho River
SPRING CREEK AT LAKE AVENUE CROSSING IN MERTZON	17346	1423A	8	LC	UC	RT								4	4	4	4		Concho River
DOVE CREEK AT BRIDGE SE BOUND ON FM2335 NEAR KNICKERBOCKER	12166	1423B	8	LC	UC	BS	2	2	2	2						2	2	FY27 UCRA ALM Station	Concho River
DOVE CREEK AT BRIDGE SE BOUND ON FM2335 NEAR KNICKERBOCKER	12166	1423B	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Concho River
SOUTH CONCHO RIVER IMMEDIATELY DOWNSTREAM OF US 277 AT CHRISTOVAL	12427	1424	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Concho River
MIDDLE CONCHO RIVER AT FM 853 NORTH OF MERTZON	16903	1424	8	LC	UC	RT								4	4	4	4		Concho River
SOUTH CONCHO RIVER 175 M DOWNSTREAM OF ANSON SPRING APPROXIMATELY 6.3 KM SOUTH OF CHRISTOVAL	18712	1424	8	LC	UC	RT								4		4	4		Concho River

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
WEST ROCKY CREEK AT FM 853 43.4 KM/27 MI NORTHEAST OF MERTZON	12165	1424A	8	LC	UC	RT								4		4	4		Concho River
O C FISHER RESERVOIR MID LAKE 425 M WEST OF DAM RELEASE CONTROL TOWER	12429	1425	8	LC	UC	RT								4	4		4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Concho River
NORTH CONCHO RIVER AT COUNTY ROAD BRIDGE 0.6 MILE SOUTHWEST OF CARLSBAD	12171	1425A	8	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Concho River
N CONCHO RIVER AT SHERWOOD LANE CROSSING 2.1MI SE OF STERLING CITY .75MI SOUTH OF SH87	16779	1425A	8	LC	UC	RT								4	4	4	4		Concho River
NORTH CONCHO RIVER AT RR 2034 SOUTHWEST OF WATER VALLEY	17350	1425A	8	LC	UC	RT								4	4	4	4		Concho River
NORTH CONCHO RIVER APPROXIMATELY 3.74KM UPSTREAM OF WILLOW CREEK CONFLUENCE 428 METERS SOUTH OF US HWY 87	22482	1425A	8	LC	UC	RT								4		4	4		Concho River
COLORADO RIVER AT FM 2111 0.4 MI UPSTREAM FROM ROCKY CREEK 5.0 MI SW OF BALLINGER	13651	1426	3	LC	UC	RT								4	4	4	4	Chlorophyll 4x year	Upper Colorado River
COLORADO RIVER AT FM3115 SOUTH OF MAVERICK	16901	1426	3	LC	UC	RT								4	4	4	4		Upper Colorado River
COLORADO RIVER AT OXBOW RANCH APPROX 0.75 KM DOWNSTREAM OF MUSTANG CREEK CONFLUENCE SOUTHEAST OF BALLINGER	17244	1426	3	LC	UC	RT								4		4	4	Chlorophyll 4x year	Upper Colorado River
~~COLORADO RIVER AT OXBOW RANCH APPROX 0.75 KM DOWNSTREAM OF MUSTANG CREEK CONFLUENCE SOUTHEAST OF BALLINGER~~	~~17244~~	~~1426~~	~~3~~	~~LC~~	~~UC~~	~~BS~~	~~2~~	~~2~~	~~2~~	~~2~~						~~2~~	~~2~~	~~ALM station~~	~~Upper Colorado River~~
COLORADO RIVER USGS STATION IMMEDIATELY DOWNSTREAM OF SH 208 IN ROBERT LEE TEXAS	18338	1426	8	LC	UC	RT								4		4	4	Chlorophyll 4x year	Upper Colorado River
OAK CREEK RESERVOIR MID LAKE NEAR DAM OFF BONNER POINT AND WEST OFF RANCH RD 3399	12180	1426A	8	LC	UC	RT								4	4		4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Upper Colorado River
ELM CREEK APPROXIMATELY 15 M DOWNSTREAM OF COUNTY ROAD 330 4 MILES NORTH OF BALLINGER	12207	1426B	3	LC	UC	RT								4	4	4	4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Upper Colorado River
ELM CREEK AT THE BALLINGER WWTP DISCHARGE PERMIT 10325-003 1.32 KM DOWNSTREAM OF US 67	15536	1426B	3	LC	UC	RT								4	4	4	4	Chlorophyll 4x year, UCRA Sample Q1-Q4	Upper Colorado River
BLUFF CREEK AT RUNNELS CR 351/HATCHELL-EAGLE-BRANCH ROAD	17474	1426C	3	LC	UC	RT								4		4	4		Upper Colorado River

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
~~BLUFF CREEK AT RUNNELS CR 351/HATCHELL-EAGLE-BRANCH ROAD~~	~~17474~~	~~1426C~~	~~3~~	~~LC~~	~~UC~~	~~BS~~	~~2~~	~~2~~	~~2~~	~~2~~						~~2~~	~~2~~	~~ALM station~~	~~Upper Colorado River~~
COYOTE CREEK AT RUNNELS CR 342 NORTH OF BALLINGER	16899	1426D	3	LC	UC	RT								4		4	4		~~Austin~~ Upper Colorado River
ONION CREEK AT US 183 SOUTHEAST OF AUSTIN	12436	1427	11	LC	TV	RT								4	4	4	4		Austin
~~ONION CREEK AT US 183 SOUTHEAST OF AUSTIN~~	~~12436~~	~~1427~~	~~11~~	~~LC~~	~~LC~~	~~BS~~	~~2~~	~~2~~	~~2~~	~~2~~						~~2~~	~~2~~	~~ALM station~~	~~Austin~~
ONION CREEK AT FM 150 0.61 KM DOWNSTREAM OF FLAT CREEK CONFLUENCE	12451	1427	11	LC	AU	RT								4	4	4	4	COA WPD collecting annually	Austin
SLAUGHTER CREEK APPROXIMATELY 21 M DOWNSTREAM OF FM 1826 SOUTH OF AUSTIN	12186	1427A	11	LC	TV	RT								4	4	4	4		Austin
WILLIAMSON CREEK AT BRUSH COUNTRY BLVD NEAR OAK HILL |	15697	1427B	11	LC	AU	RT								4	4	4	4		Austin
COLORADO RIVER AT COUNTY PARK IN WEBBERVILLE APPROX 334 METERS TO THE WEST OF WATER ROAD	12466	1428	11	LC	LC	RT								6	6	6	6		Austin
COLORADO RIVER AT FM 973 AT DEL VALLE	12469	1428	11	LC	LC	RT								6	6	6	6		Austin
COLORADO RIVER BRIDGE ON US 183 SOUTHEAST OF AUSTIN/COLORADO RIVER ON LOCKHART BRIDGE NEXT TO US 183 BRIDGE	12474	1428	11	LC	LC	RT								6	6	6	6		Austin
DRY CREEK 30 M UPSTREAM OF RIVER ROAD 1.8 KM NORTHEAST OF INTERSECTION OF TUCKER HILL LANE AND SH 71 SOUTHEAST OF AUSTIN	17273	1428L	11	LC	TV	RT								4	4	4	4		Austin
COLORADO RIVER NEAR AUSTINS COLONY NEIGHBORHOOD 4KM DOWNSTREAM OF SH 130 APPROX 160 METERS SOUTH AND 150 METERS WEST OF CROWNOVER STREET	22387	1428	11	LC	LC	BS	2	2	2	2						2	2	FY27 ALM Station	Austin
COLORADO RIVER NEAR AUSTINS COLONY NEIGHBORHOOD 4KM DOWNSTREAM OF SH 130 APPROX 160 METERS SOUTH AND 150 METERS WEST OF CROWNOVER STREET	22387	1428	11	LC	LC	RT								6	6	6	6		Austin
COLORADO RIVER AT BIG WEBBERVILLE PARK 1.1 KILOMETERS SOUTH AND 625 METERS WEST OF FM 969 AND WEBBERWOOD DRIVE INTERSECTION	22618	1428	11	LC	TV	RT								4	4	4	4		Austin
WALNUT CREEK AT SOUTHERN PACIFIC RR APPROXIMATELY 26 M DOWNSTREAM OF	12231	1428B	11	LC	AU	RT								4	4	4	4	~~Will likely move this site upstream due to lack of surface flow~~	Austin

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
AUSTIN AND NORTHWESTERN 1.2 MILES SOUTH OF FM 969 IN EAST AUSTIN																		~~(flow likely goes subsurface in alluvium)~~	
WALNUT CREEK 5 M DOWNSTREAM OP OLD MANOR ROAD AND 175 M EAST OF INTERSECTION OF OLD MANOR ROAD AND FERGUSON CUTOFF NORTH OF PRESERVE	17469	1428B	11	LC	AU	RT								4	4	4	4		Austin
WALNUT CREEK NEAR MOPAC EXPRESSWAY 225 METERS SOUTH AND 220 METERS WEST OF ADELPHI LANE AND WATERS PARK DRIVE INTERSECTION	22653	1428B	11	LC	AU	RT								4	4	4	4		Austin
WALNUT CREEK AT NORTH IH35 FRONTAGE ROAD 225 METERS NORTH OF RIVER OAKS DRIVE AND N I35 FRONTAGE ROAD INTERSECTION	22666	1428B	11	LC	AU	RT								4	4	4	4		Austin
~~WALNUT CREEK IMMEDIATELY DOWNSTREAM OF LOOP 1/MOPAC EXPWY IN AUSTIN~~	~~17251~~	~~1428B~~	~~11~~	~~LC~~	~~AU~~	~~RT~~								~~4~~	~~4~~	~~4~~	~~4~~	~~Quarterly sampling for TMDL in conjunction with EII~~	~~Austin~~
GILLELAND CREEK AT FM 973 SOUTH OF MANOR	12235	1428C	11	LC	AU	RT								4	4	4	4	for Gilleland TMDL Implementation Plan monitoring	~~Austin~~ Lower Colorado River
GILLELAND CREEK AT US 290 NORTH OF MANOR	12236	1428C	11	LC	AU	RT								4	4	4	4	for Gilleland TMDL Implementation Plan monitoring	~~Austin~~ Lower Colorado River
GILLELAND CREEK 20M DOWNSTREAM WINDEMERE WWTP DISCHARGE APPROXIMATELY 96 M DOWNSTREAM OF EDGEMERE	12241	1428C	11	LC	TV	RT								4	4	4	4		Lower Colorado River
GILLELAND CREEK IMMEDIATELY DOWNSTREAM OF WEBBERVILLE ROAD/FM 969 EAST OF AUSTIN	17257	1428C	11	LC	LC	RT								6	6	6	6		Austin
NORTH FORK DRY CREEK AT FM 973 BRIDGE 100 METERS SOUTH OF FM 873 AND FM 812 INTERSECTION	22665	1428L	11	LC	TV	RT								4	4	4	4		Lower Colorado River
~~GILLELAND CREEK APPROXIMATELY 20 M UPSTREAM OF GRAND AVENUE PARKWAY IN PFLUGERVILLE~~	~~18762~~	~~1428C~~	~~11~~	~~LC~~	~~TV~~	~~RT~~								~~4~~	~~4~~	~~4~~	~~4~~		~~Austin~~
LADY BIRD LAKE AT LONGHORN DAM APPROXIMATELY 280 METERS SOUTH AND 250 METERS EAST OF INTERSECTION OF CANTERBURY STREET AND PEDERNALES STREET	12476	1429	11	LC	AU	RT						~~1~~	1	9	9		9		Austin
TOWN LAKE USGS SITE EC 110 METERS DOWNSTREAM FROM THE SOUTH END OF RED BUD ISLES PARK	14071	1429	11	LC	AU	RT								9	9		9		Austin

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
WALLER CREEK AT 24TH STREET ON UT CAMPUS IN AUSTIN	15962	1429C	11	LC	AU	RT								4	4	4	4	Added for TMDL	Austin
WALLER CREEK AT AVENUE H AT THE ELISABET NEY MUSEUM	16331	1429C	11	LC	AU	RT								4	4	4	4	Added for TMDL	Austin
BARTON CREEK AT SH 71 5.3 MILES NORTHWEST OF OAK HILL	12495	1430	11	LC	AU	RT								4	4	4	4		Austin
BARTON CREEK AT LOST CREEK BLVD	13555	1430	11	LC	AU	RT								4	4	4	4		Austin
O H IVIE RESERVOIR NEAR DAM	12511	1433	3	LC	UC	RT								2	2		2	Chlorophyll 2x year, UCRA Sample Q2 and Q4	Upper Colorado River
O H IVIE RESERVOIR IN CONCHO RIVER ARM AT FM 1929	12512	1433	8	LC	UC	RT								2	2		2	Chlorophyll 2x year, UCRA Sample Q2 and Q4	Upper Colorado River
O H IVIE RESERVOIR IN COLORADO RIVER ARM AT ABILENE PUMP STATION	12513	1433	8	LC	UC	RT								2	2		2	Chlorophyll 2x year, UCRA Sample Q2 and Q4	Lower Colorado River
COLORADO RIVER AT SH 71 AT LA GRANGE	12292	1434	11	LC	LC	RT								6	6	6	6		Lower Colorado River
COLORADO RIVER DOWNSTREAM SH 95 1 MI AT OLIVE RD IN SMITHVILLE	12293	1434	11	LC	LC	RT								6	6	6	6		Lower Colorado River
COLORADO RIVER AT LOOP 150 SOUTH OF BASTROP	12462	1434	11	LC	LC	RT								6	6	6	6		Lower Colorado River
~~COLORADO RIVER AT FM 969 SE OF WEBBERVILLE~~	~~12463~~	~~1434~~	~~11~~	~~LC~~	~~LC~~	~~BS~~	~~2~~	~~2~~	~~2~~	~~2~~				~~2~~	~~2~~	~~2~~	~~2~~	~~ALM station~~	~~Austin~~
CEDAR CREEK APPROX 200FT DOWN-STREAM OF FM304	16176	1434B	11	LC	LC	RT								6	6	6	6		Lower Colorado River
LAKE BASTROP OFF TRIANGLE POINT OVER SPICER CREEK CHANNEL APPROX 185M EAST OF LANDMARK/TRIANGLE POINT	17020	1434C	11	LC	LC	RT								6	6		6		Lower Colorado River
~~WILBARGER CREEK 60 METERS DOWNSTREAM OF GREGG LANE~~	~~20808~~	~~1434D~~	~~11~~	~~LC~~	~~TV~~	~~RT~~								~~4~~	~~4~~	~~4~~	~~4~~		~~Lower Colorado River~~
WILBARGER CREEK IMMEDIATELY DOWNSTREAM OF FM 1704 1.23 KM EAST AND 2.20 KM NORTH FROM FM 1704 AND FM 969 INTERSECTION	22492	1434D	11	LC	LC	RT								6	6	6	6		Lower Colorado River
WILBARGER CREEK IMMEDIATELY UPSTREAM OF BITTING SCHOOL ROAD 1.1 KILOMETERS SOUTH AND 867 METERS WEST OF LITTIG ROAD AND BITTING SCHOOL ROAD INTERSECTION	22617	1434D	11	LC	TV	RT								4	4	4	4		Lower Colorado River

Replaces pages 95-107 of the FY 2026-2027 CRP QAPP

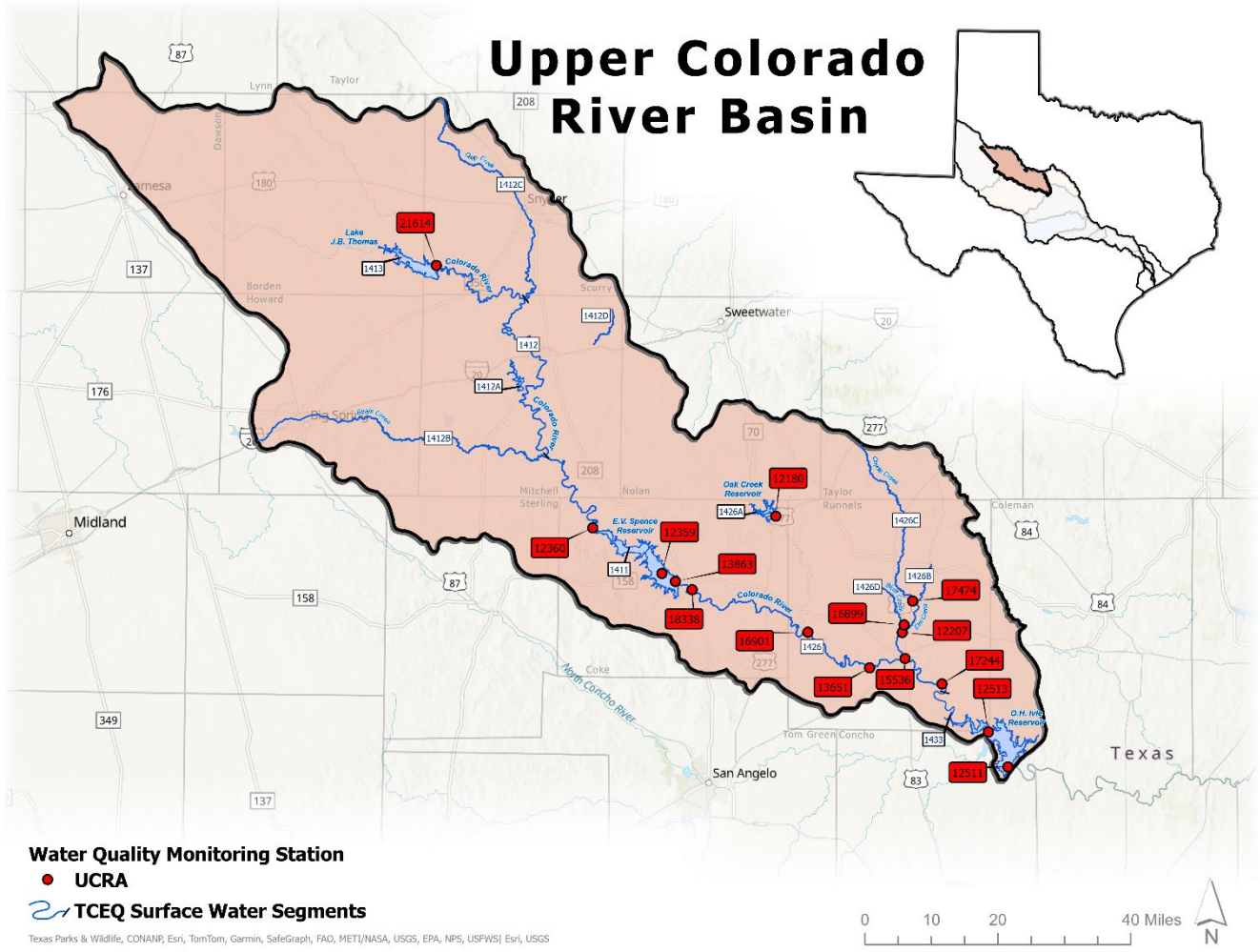
Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Field	Comments	Map Name
WILBARGER CREEK AT CAMERON ROAD BRIDGE 360 METERS SOUTH AND 180 METERS WEST OF CAMERON ROAD AND SCHMIDT LANE INTERSECTION	22661	1434D	11	LC	TV	RT								4	4	4	4		Lower Colorado River
DRY CREEK AT ALBERT VOELKER ROAD 1.28 KILOMETERS WEST AND 710 METERS NORTH OF ALBERT VOELKER ROAD AND COUNTY LINE ROAD INTERSECTION	22662	1434D	11	LC	TV	RT								4	4	4	4		Lower Colorado River
WILLOW CREEK AT HIGHWAY 290 BRIDGE 350 METERS EAST OF HIGHWAY 290 AND BALLERSTEDT ROAD INTERSECTION	22663	1434D	11	LC	TV	RT								4	4	4	4		Lower Colorado River
COTTONWOOD CREEK AT CAMERON ROAD 70 METERS SOUTH AND 116 METERS EAST OF CAMERON ROAD AND CELE ROAD INTERSECTION	22664	1434D	11	LC	TV	RT								4	4	4	4		Lower Colorado River
WILBARGER CREEK APPROX 200FT DOWNSTREAM OF BASTROP CR55/LOWER ELGIN	16178	1434D	11	LC	LC	BS	2	2	2	2				2	2	2	2	ALM station	Lower Colorado River
MAHA CREEK IMMEDIATELY DOWNSTREAM OF MAHA ROAD 0.51 KM WEST AND 0.49 KM NORTH FROM MAHA RD AND MAHA LOOP INTERSECTION	22486	1434F	11	LC	TV	RT								4	4	4	4		Lower Colorado River
MAHA CREEK IMMEDIATELY UPSTREAM OF LINDEN ROAD 1.04 KM WEST AND 1.44 KM SOUTH FROM LINDEN ROAD AND PEARCE LANE INTERSECTION	22487	1434F	11	LC	TV	RT								4	4	4	4		Lower Colorado River
ALUM CREEK APPROX 200FT UPSTREAM OF PARK ROAD 1C EAST OF BASTROP STATE PARK	16188	1434G	11	LC	LC	RT								6	6	6	6		Lower Colorado River
PINEY CREEK 210 METERS DOWNSTREAM OF SH 95 IN BASTROP COUNTY	22308	1434J	11	LC	LC	RT								6	6	6	6		Lower Colorado River

Replaces pages 108–116 of the FY 2026–2027 CRP QAPP

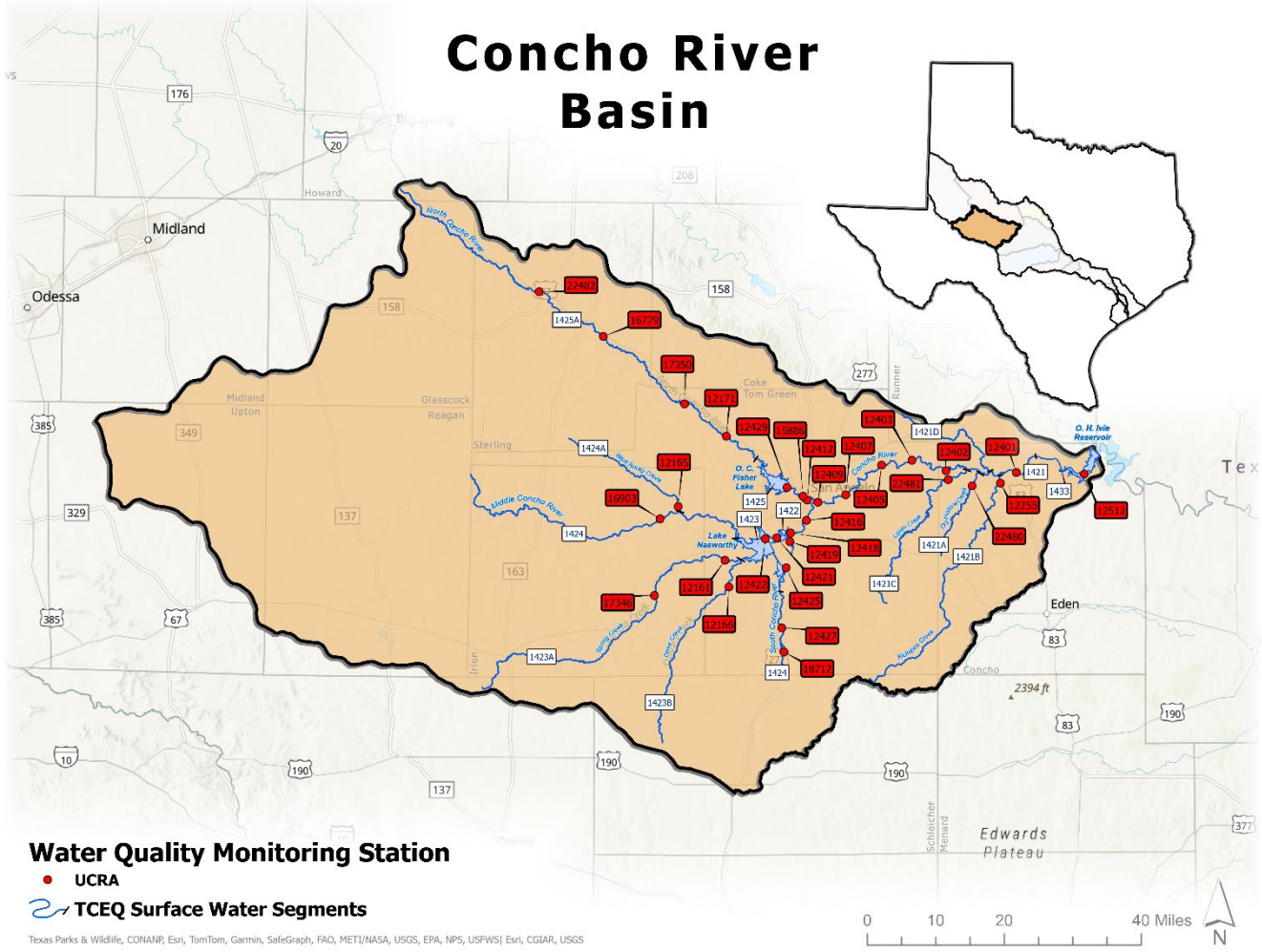
Appendix C: Station Location Maps

Station Location Maps

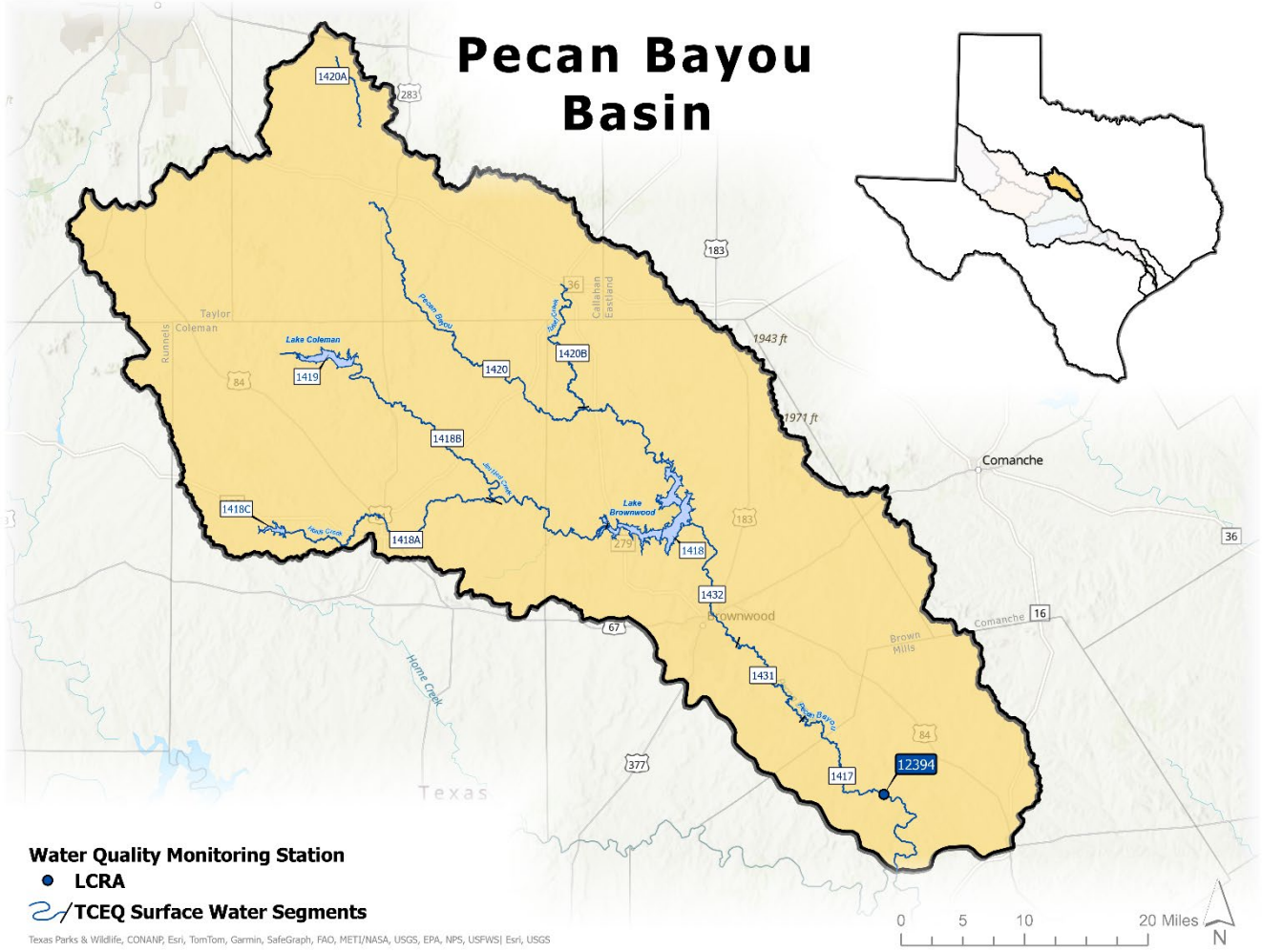
Maps of stations monitored by the LCRA are provided below. The maps were generated by the LCRA. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For more information concerning this map, contact ~~Zoe Nichols~~ Lucas Graunke at ~~(512) 578-2858~~ (512) 578-7482.



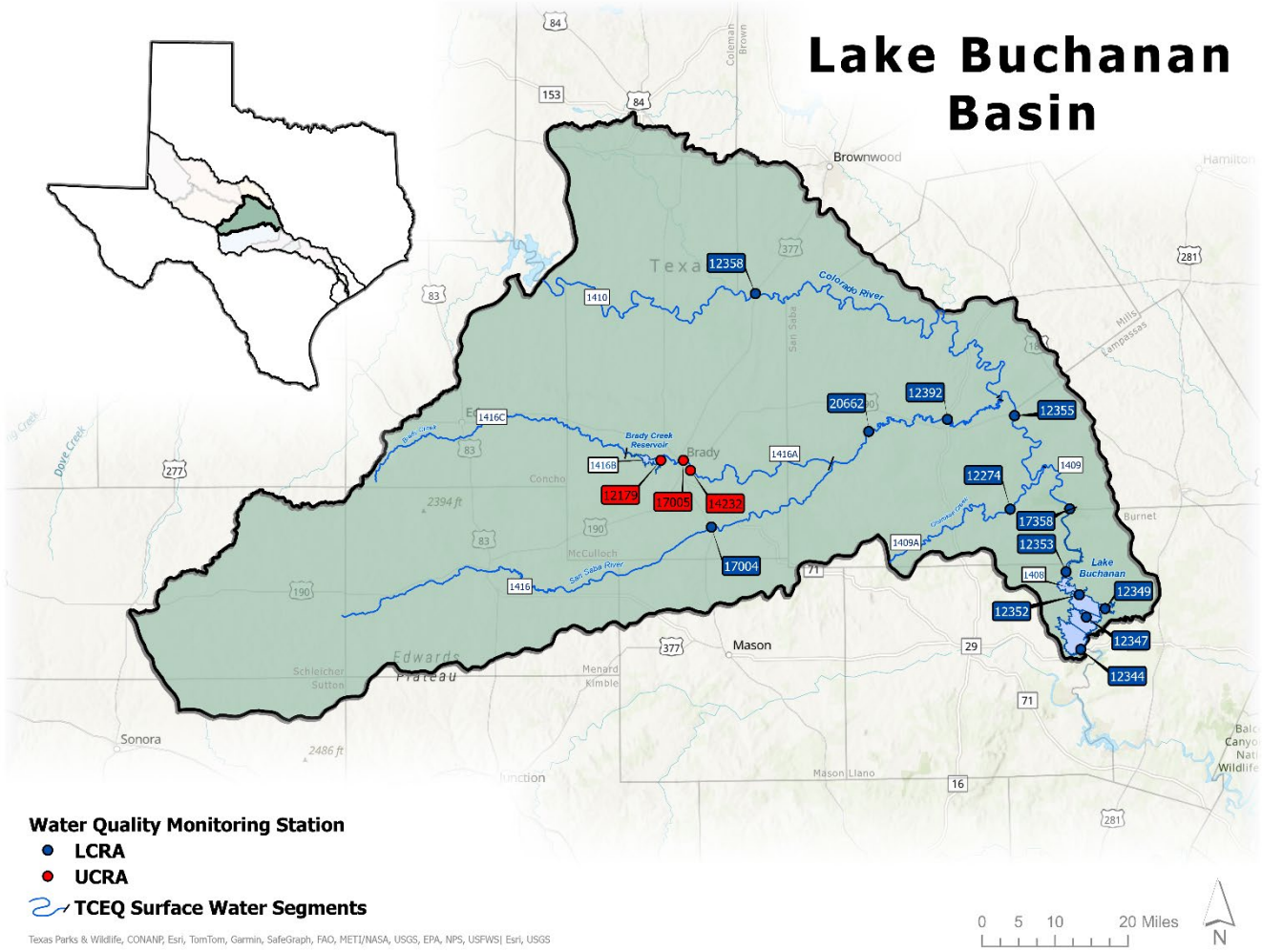
Replaces pages 108–116 of the FY 2026–2027 CRP QAPP



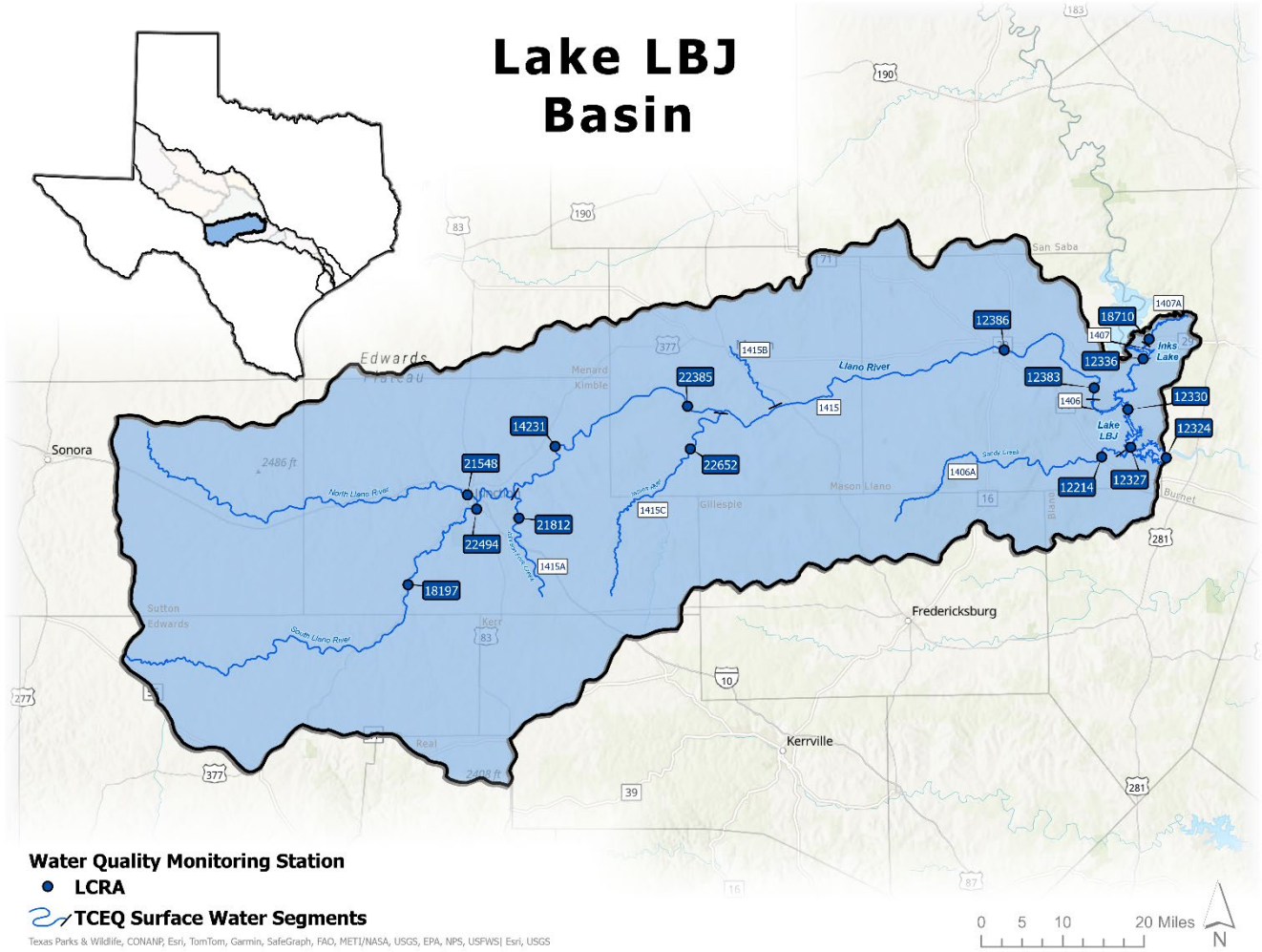
Replaces pages 108–116 of the FY 2026–2027 CRP QAPP



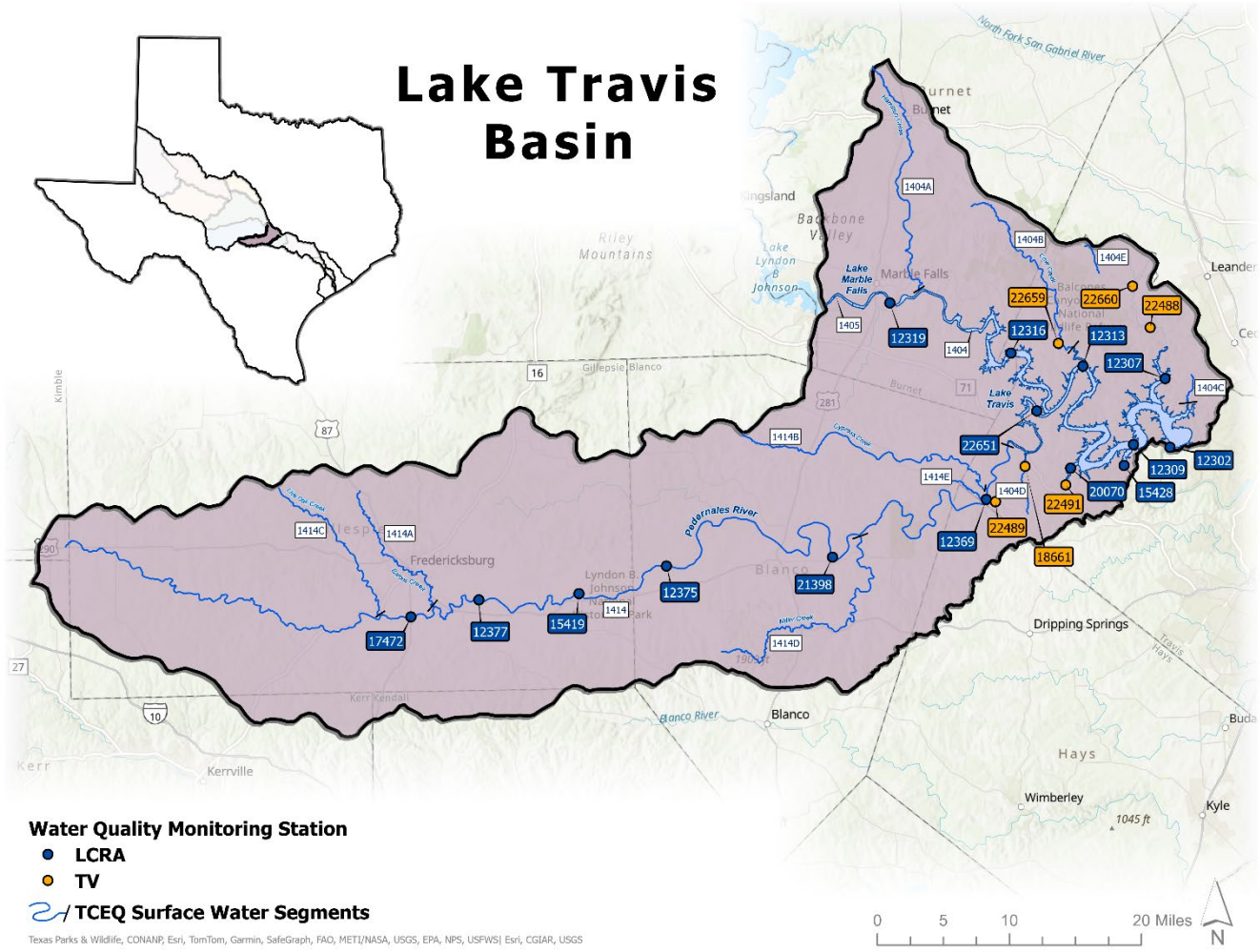
Replaces pages 108–116 of the FY 2026–2027 CRP QAPP



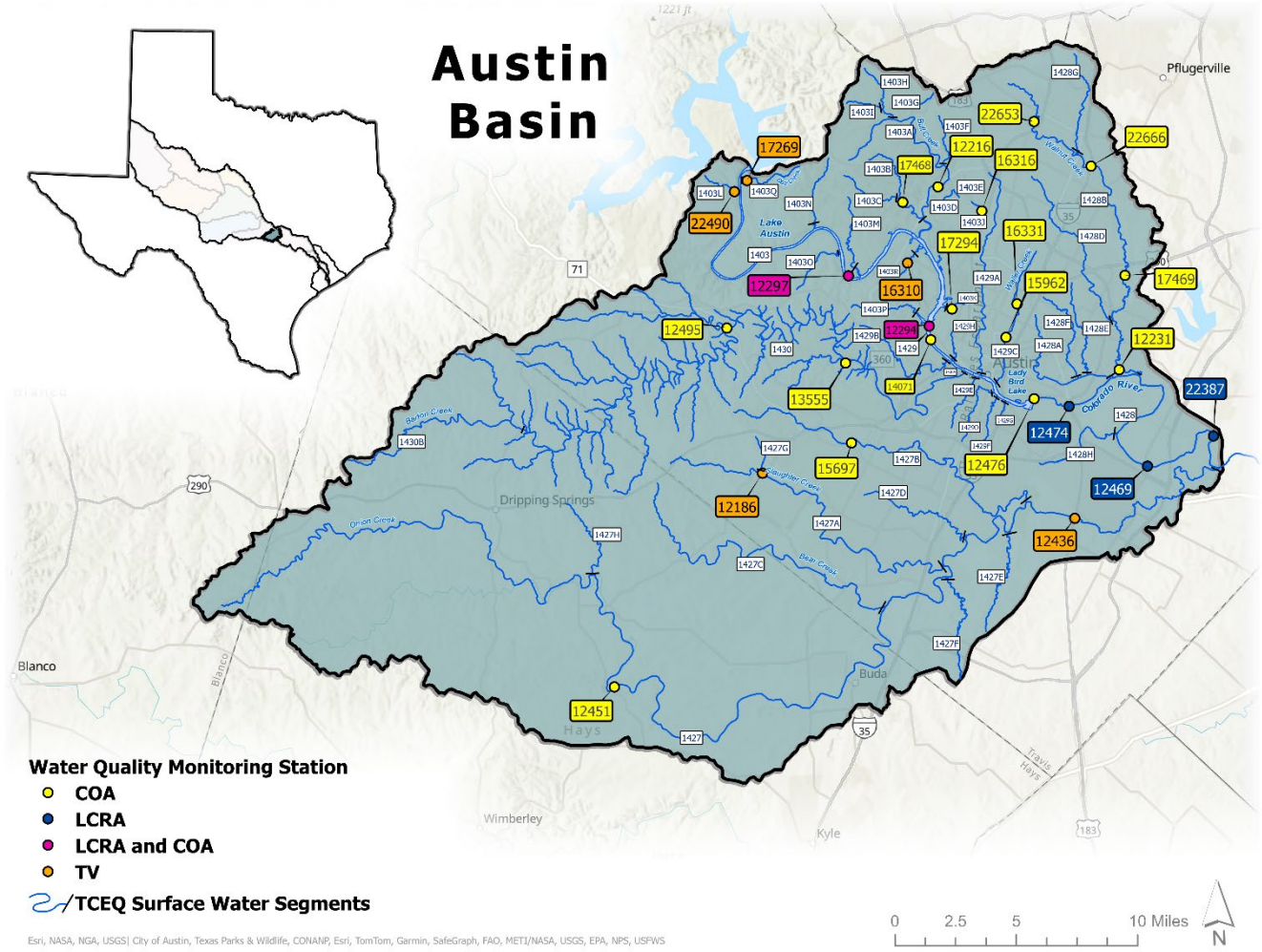
Replaces pages 108–116 of the FY 2026–2027 CRP QAPP



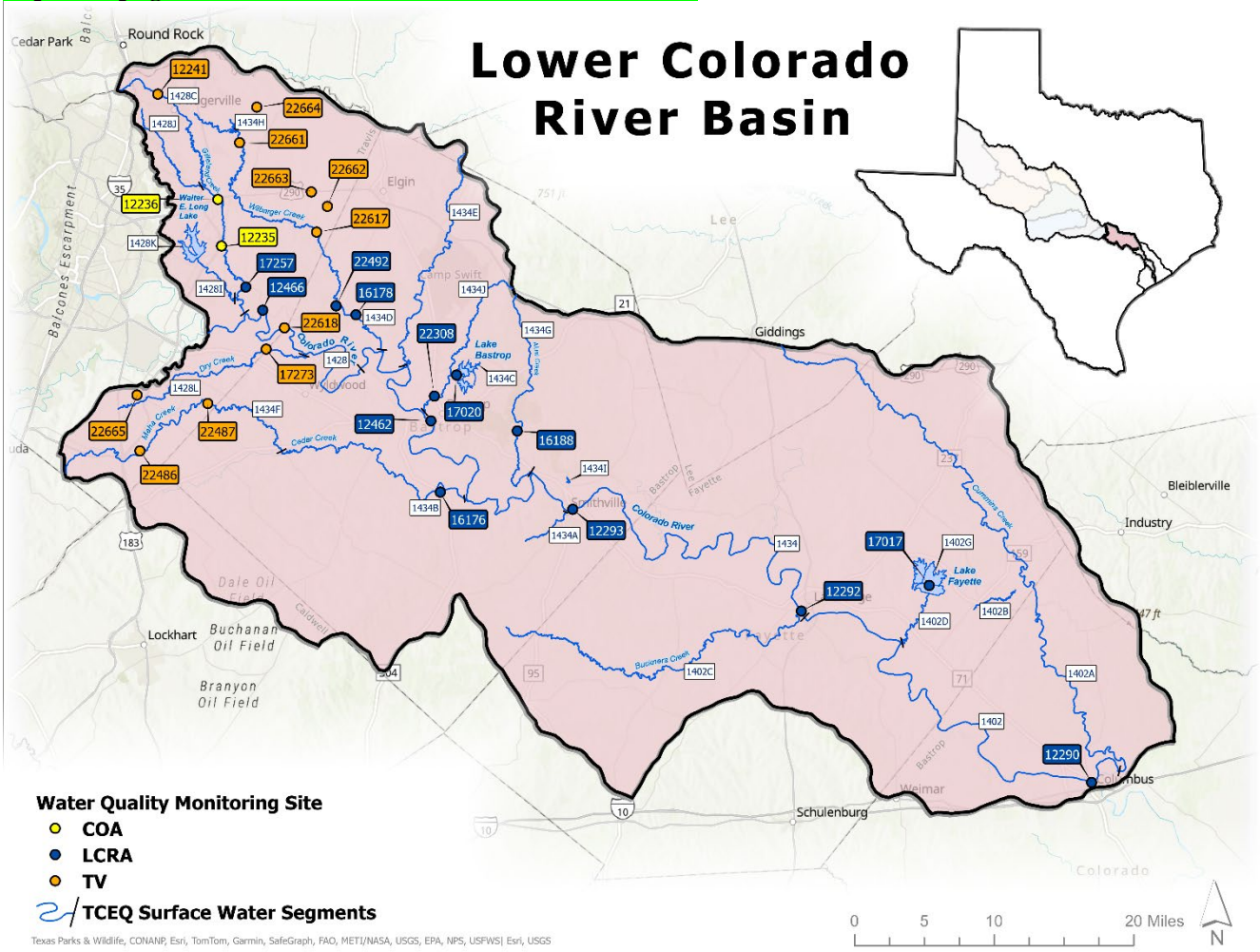
Replaces pages 108–116 of the FY 2026–2027 CRP QAPP



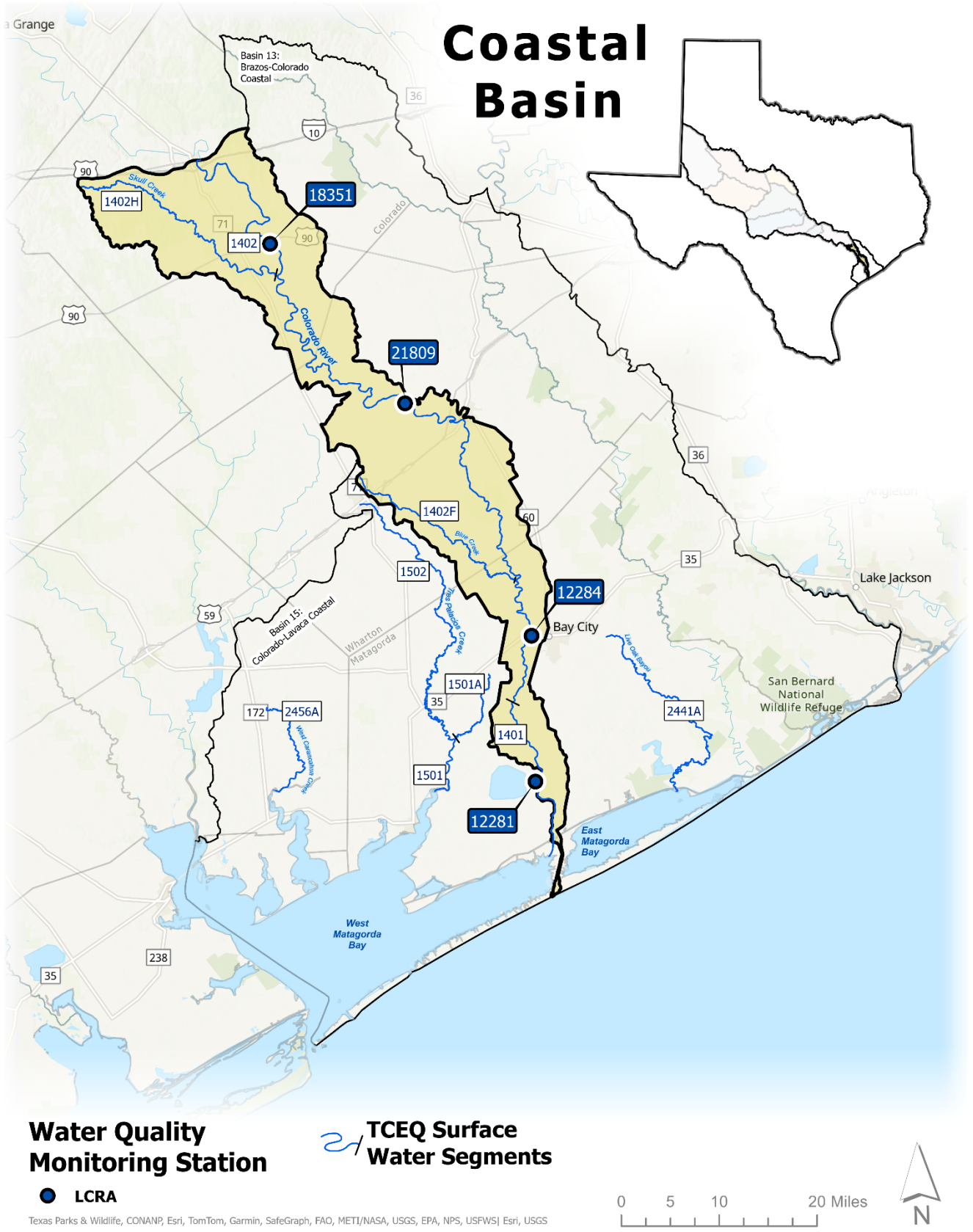
Replaces pages 108–116 of the FY 2026–2027 CRP QAPP



Replaces pages 108–116 of the FY 2026–2027 CRP QAPP



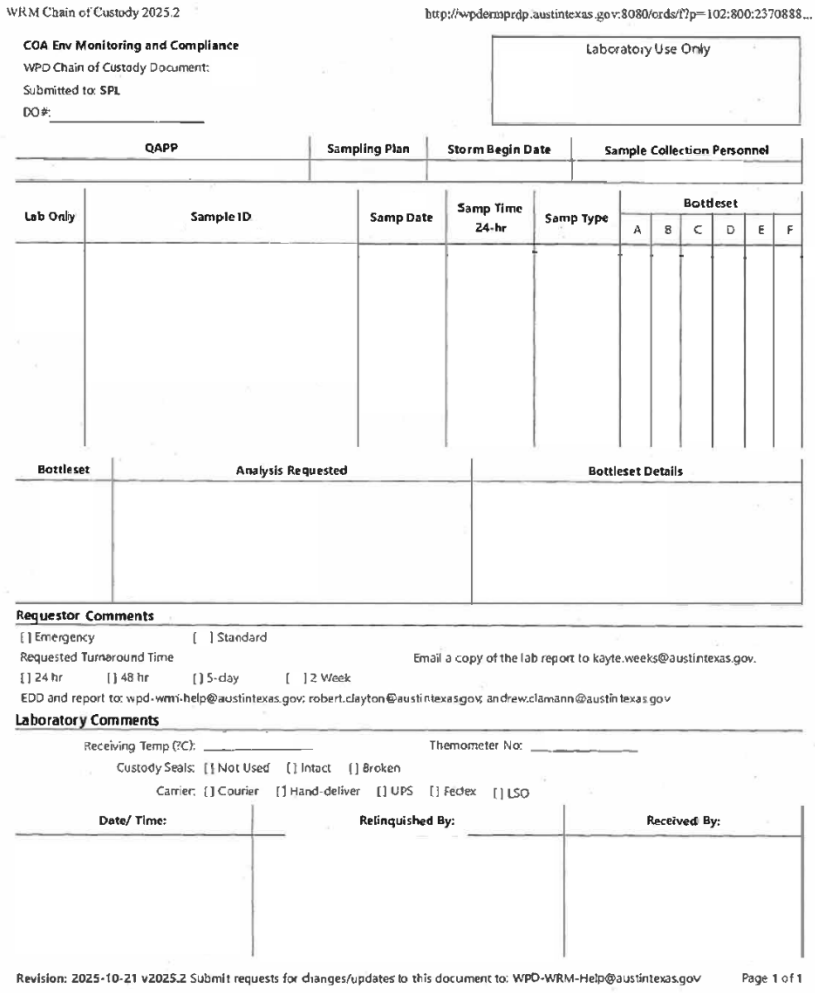
Replaces pages 108–116 of the FY 2026–2027 CRP QAPP



Replaces page 131 of the FY 2026–2027 CRP QAPP

Appendix E: Chain of Custody Forms

COA Chain of Custody for ~~DHL~~ SPL



WRM Chain of Custody 2025.2 http://wpdenmprdp.austintexas.gov:8080/ords/f?p=102:800:2370888...

COA Env Monitoring and Compliance
WPD Chain of Custody Document:
Submitted to: **SPL**
DO#: _____

Laboratory Use Only

QAPP	Sampling Plan	Storm Begin Date	Sample Collection Personnel

Lab Only	Sample ID	Samp Date	Samp Time 24-hr	Samp Type	Bottleset A	B	C	D	E	F

Bottleset	Analysis Requested	Bottleset Details

Requestor Comments

[ ] Emergency [ ] Standard
Requested Turnaround Time
[ ] 24 hr [ ] 48 hr [ ] 5-day [ ] 2 Week
Email a copy of the lab report to kayte.weeks@austintexas.gov.
EDD and report to: wpd-wmi-help@austintexas.gov; robert.clayton@austintexas.gov; andrew.clamann@austintexas.gov

Laboratory Comments

Receiving Temp (°C): _____ Themometer No: _____
Custody Seals: [ ] Not Used [ ] Intact [ ] Broken
Carrier: [ ] Courier [ ] Hand-deliver [ ] UPS [ ] Fedex [ ] LSO

Date/ Time:	Relinquished By:	Received By:

Revision: 2025-10-21 v2025.2 Submit requests for changes/updates to this document to: WPD-WRM-Help@austintexas.gov Page 1 of 1